Exhibit C

Kevin Holcomb, M.D.

Page 1

IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF NEW JERSEY

- - -

IN RE: JOHNSON & :
JOHNSON TALCUM POWDER :
PRODUCTS MARKETING, :

SALES PRACTICES, AND : NO. 16-2738 PRODUCTS LIABILITY : (FLW) (LHG)

LITIGATION

:

THIS DOCUMENT RELATES : TO ALL CASES :

March 27, 2019

- - -

Videotaped deposition of KEVIN HOLCOMB, M.D., taken pursuant to notice, was held at Weil Gotshal & Manges, LLP, 767 Fifth Avenue, New York, New York, beginning at 9:53 a.m., on the above date, before Michelle L. Gray, a Registered Professional Reporter, Certified Shorthand Reporter, Certified Realtime Reporter, and Notary Public.

- - -

GOLKOW LITIGATION SERVICES 877.370.3377 ph | 917.591.5672 fax deps@golkow.com

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1		1	BY MS. GARBER:
2	DEPOSITION SUPPORT INDEX	2	Q. Good morning, Doctor.
3		3	A. Good morning.
4		4	Q. Would you please state your
5 6	Direction to Witness Not to Answer PAGE LINE	5	name for the record?
ь	None.	6	A. Yes. My name is Kevin
7	None.	7	Holcomb.
8	Request for Production of Documents	8	Q. And you're a medical doctor?
9	PAGE LINE	9	A. Yes, I am.
1.0	None.	10	Q. Are you a gynecologic
10 11	Stimulations	11	oncologist?
12	Stipulations PAGE LINE	12	A. I am.
	None.	13	Q. And are you a practicing
13		14	gynecologic oncologist?
14	Questions Marked	15	A. I am.
15	PAGE LINE	16	Q. Where do you practice?
16	None.	17	A. I practice at Weill Cornell
17		18	Medical Center.
18		19	Q. Thank you. Are you here
19		20	today as a litigation expert for the
20		21	defendant, Johnson & Johnson?
21		22	A. I am.
22		23	Q. And this is not the first
23 24		24	time you've testified for the defendant
	Page 11		Page 13
1		1	Johnson & Johnson regarding their talcum
2	THE VIDEOGRAPHER: We are	2	powder products and risk of ovarian
3	now on the record. My name is	3	cancer; is that true?
4	Henry Marte. I am a videographer	4	A. That's true.
5			
	with Golkow Litigation Services.	5	Q. You testified in deposition
6	Today's date is March 27,	6	Q. You testified in deposition and at trial in the Ingham matter; is
7	Today's date is March 27, 2019, and the time is 9:53 a.m.	6 7	Q. You testified in deposition and at trial in the Ingham matter; is that correct?
7 8	Today's date is March 27, 2019, and the time is 9:53 a.m. This videotaped deposition	6 7 8	Q. You testified in deposition and at trial in the Ingham matter; is that correct? A. That's correct.
7 8 9	Today's date is March 27, 2019, and the time is 9:53 a.m. This videotaped deposition is being held at 767 Fifth Avenue,	6 7 8 9	Q. You testified in deposition and at trial in the Ingham matter; is that correct?A. That's correct.Q. Have you ever testified in
7 8 9 10	Today's date is March 27, 2019, and the time is 9:53 a.m. This videotaped deposition is being held at 767 Fifth Avenue, New York, New York in the matter	6 7 8 9 10	Q. You testified in deposition and at trial in the Ingham matter; is that correct? A. That's correct. Q. Have you ever testified in deposition or trial in any other talcum
7 8 9 10 11	Today's date is March 27, 2019, and the time is 9:53 a.m. This videotaped deposition is being held at 767 Fifth Avenue, New York, New York in the matter of Talcum Powder Litigation.	6 7 8 9 10 11	Q. You testified in deposition and at trial in the Ingham matter; is that correct? A. That's correct. Q. Have you ever testified in deposition or trial in any other talcum powder ovarian cancer cases?
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	Page 14		Page 16
1	defendant resolved in one way or another?	1	Q. If you don't understand one
2	A. I believe there's still one	2	of my questions, I'm bound to be unartful
3	outstanding.	3	at times, and I don't want you to guess
4	Q. What is the name of that	4	at what you think I'm asking you. Just
5	matter?	5	please ask me to clarify. Because if you
6	A. I'm trying to remember the	6	don't I'm going to assume that you
7	patient's last name. I'm sorry. I don't	7	understood my question. Is that fair?
8	remember the last name of the patient,	8	A. That's fair.
9	sorry.	9	Q. All right. I just want to
10	Q. Where was that case venued?	10	kind of clear up a few definitions so
11	A. In New York.	11	we're on the same page. Okay?
12	Q. And is it accurate, Doctor,	12	When I refer to talcum
13	that none of those matters concern	13	powder products today, will you
14	diagnosis and/or treatment of ovarian	14	understand that that includes Johnson &
15	cancer?	15	Johnson's Baby Powder and Shower to
16	A. That's true.	16	Shower products?
17	Q. Is the nature of the matter	17	A. Yes.
18	that's still open in connection with	18	Q. And in your report you use
19	performance of robotic surgery?	19	the word tale. Is that fair to assume
20	A. Yes.	20	
21		21	that you are including Johnson &
22	Q. Thank you. So I don't know	22	Johnson's Baby Powder and Shower to
	the last time that you've been deposed.		Shower products?
23 24	Has it been since the Ingham matter?	23	MS. CURRY: Objection to
24	A. That was the last time.	24	form.
	De 22 15		
	Page 15		Page 17
1	Q. All right. I'll go through	1	Page 17 THE WITNESS: That's true.
2	Q. All right. I'll go through the admonitions that typically accompany	1 2	
	Q. All right. I'll go through the admonitions that typically accompany the deposition process so we've reviewed		THE WITNESS: That's true.
2 3 4	Q. All right. I'll go through the admonitions that typically accompany the deposition process so we've reviewed the most important ones. Okay?	2	THE WITNESS: That's true. BY MS. GARBER:
2 3 4 5	Q. All right. I'll go through the admonitions that typically accompany the deposition process so we've reviewed	2 3 4 5	THE WITNESS: That's true. BY MS. GARBER: Q. What is a carcinogen?
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5 (Pages 14 to 17)

	Page 18		Page 20
1	MS. CURRY: Objection to	1	exposure to a known carcinogen and
2	form.	2	the development of the cancer that
3	THE WITNESS: Typically that	3	it's associated with, that it
4	is something that I would relate	4	causes.
5	to statistical analysis from	5	BY MS. GARBER:
6	studies. So there would be	6	Q. You used the phrase "known
7	statistical definitions.	7	carcinogen." How do you know if it's a
8	BY MS. GARBER:	8	known carcinogen?
9	Q. Rather than a medical degree	9	A. Well, if it's not a
10	of certainty, correct?	10	carcinogen, you can't really have a
11	MS. CURRY: Objection to	11	latency period.
12	form.	12	Q. In the performance of a
13	THE WITNESS: My medical	13	study assessing whether or not it's a
14	degree of certainty is often based	14	carcinogen, you can nevertheless still
15	on the statistical results of	15	have a latency period for purposes of
16	tests.	16	determining follow-up and things of that
17	BY MS. GARBER:	17	nature, correct?
18	Q. How do you define a causal	18	A. No, I don't think
19	factor in the context of ovarian cancer?	19	MS. CURRY: Objection to
20	A. A causal factor would be	20	form.
21	something that you know caused the	21	THE WITNESS: I don't agree
22	cancer.	22	with that.
23	Q. How do you know if it caused	23	BY MS. GARBER:
24	cancer?	24	Q. You don't?
	cuncer.	24	Q. Tou don't:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. CURRY: Objection to form. THE WITNESS: Well, in the context of any individual patient, I can't say what caused their cancer. So I think it's impossible to say on an individual level that you've seen that. Outside of the individual, if you have a substance that can transform cells into a malignant phenotype in a cell culture for example, that would be evidence of a carcinogen. BY MS. GARBER: Q. What is your definition of the phrase latency period in the context of ovarian cancer? MS. CURRY: Objection to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. No. Q. All right. Do you have an opinion as to the latency period for ovarian cancer? A. In general, I think to define the latency period, you have to, one, start with a carcinogen, and then have data showing that you have an idea from the time of first exposure to that carcinogen to the development of the disease in question. So latency periods are going to be specific to whichever carcinogen you're speaking about. Q. Okay. Fair enough. Is serous ovarian cancer included under the umbrella of epithelial ovarian cancer? A. It is. Q. So in other words, serous
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6 (Pages 18 to 21)

accurate, Doctor, that you've never conducted research experiments regarding the effects of talcum powder products and its carcinogenicity? A. That's true. Q. And in your CV it shows that you've never published regarding talcum powder products and ovarian cancer, right? A. That's true. Q. Is it also true that you've never published regarding talcum powder products, asbetsos, and ovarian cancer? pright? A. That's true. Q. Is it also true that you've never published regarding talcum powder products, asbetsos, and ovarian cancer? A. That's true. Q. You don't have any publications with regard to talcum powder products at all, correct? A. That's true. Q. And you don't have any publications with regard to talcum powder products at all, correct? A. That's true. Q. And you don't have any publications with regard to talcum powder products at all, correct? A. That's true. Q. Have you ever created or written any presentations regarding A. No. I've created materials on ovarian cancer and its risk factors and ovarian cancer? A. No. I've created materials on ovarian cancer and its risk factors and ovarian cancer? A. No. I've created materials on ovarian cancer and its risk factors and ovarian cancer? A. Yes. A. No. I've created materials on the students medical students, regard to risk factors and ovarian cancer? A. Yes.		Page 22		Page 24
conducted research experiments regarding the effects of talcum powder products and its carcinogenicity? A. Thar's true. Q. And in your CV it shows that you've never published regarding talcum powder products and ovarian cancer, right? Q. Is it also true that you've never published regarding talcum powder products, asbestos, and ovarian cancer? A. Thar's true. Q. You don't have any publications about asbestos at all, correct? A. Thar's true. Q. And up don't have any publications with regard to talcum powder products at all, correct? A. Thar's true. Q. Have you ever created or written any presentations regarding A. No. I've created materials on ovarian cancer and its risk factors and general educational information for the students — medical students, residents and Ellows. But not particularly with regard to talc. Q. And did any of those materials address the issue of talc one way or another? A. No. Page 23 A. Yes. Q. And did any of those materials address the issue of talc one way or another? A. No. Page 24 C. Yes. C. Y	1	accurate. Doctor, that you've never	1	MS_CURRY: Object to the
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7 you've never published regarding talcum 8 powder products and ovarian cancer, 9 right? 9 right? 10 A. That's true. 11 Q. Is it also true that you've 12 never published regarding talcum powder 13 products, asbestos, and ovarian cancer? 14 A. That's true. 15 Q. You don't have any 16 publications about asbestos at all, 17 correct? 18 A. That's true. 19 Q. And you don't have any 10 publications with regard to talcum powder 21 products at all, correct? 22 A. That's true. 23 Q. Have you ever created or 24 written any presentations regarding 24 talcum powder products and ovarian 2 cancer? 23 A. No. I've created materials 4 on ovarian cancer and its risk factors 5 and general educational information for 6 the students - medical students, 7 residents and fellows. But not 8 particularly with regard to talc. 9 Q. Did any of - were those in 10 regard to risk factors and ovarian cancer 11 risk? 12 A. Yes. 13 Q. And did any of those 14 materials address the issue of talc one 15 way or another? 16 A. No. 17 Q. So let me clarify my 18 question. Is it accurate, Doctor, that 19 in those presentations that you've 20 created with regard to tisk factors; is that 21 ovarian cancer, you've never made an 22 affirmative statement in any of those 23 that tale is not a risk factor; is that 24 that le is not a risk factor; is that 25 mentioning as a risk factors, so you're you're asking me have I formed a negative? BY MS. GARBER: BY MS. GARBER: Q. Yeah, well, and I appreciate you asking for clarification, because I don't think my question was a good one, so thank you. I just want to be sure I understand the the nature of your presentation. I pour presentation. I jour presentation was a good one, so thank you. I just want to be sure I understand the the nature of your presentation. I pour presentation. Q. What percentage of your current patients have been diagnosed with female reproductive cancer including ovarian cancer? A. I'd say about 70 percent of my patients have malignant. Q. For the 30 or so percent that have	6	O. And in your CV it shows that	6	
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11 Q. Is it also true that you've never published regarding talcum powder products, asbestos, and ovarian cancer? 13 A. That's true. 14 A. That's true. 15 Q. You don't have any 16 publications about asbestos at all, 17 correct? 18 A. That's true. 19 Q. And you don't have any 20 publications with regard to talcum powder products at all, correct? 21 A. That's true. 22 A. That's true. 23 Q. Have you ever created or written any presentations regarding 24 written any presentations regarding 25 and general educational information for the students - medical students, residents and fellows. But not particularly with regard to talc. Q. Did any of - were those in regard to risk factors and ovarian cancer? 15 and general educational information for the students - medical students, residents and fellows. But not particularly with regard to talc. Q. Did any of - were those in regard to risk factors and ovarian cancer? 10 regard to risk factors and ovarian cancer in that have not been diagnosed with a malignang,, do you counsel them with regard to the suppression that you've never made an affirmative statement in any of those that tale is not a risk factor; is that true? 21 A. No. 22 Page 23 23 Q. What percentage of your current patients have been diagnosed with female reproductive cancer including ovarian cancer? 24 A. Yes. 25 Q. Did any of - were those in regard to risk factors and ovarian cancer including ovarian cancer? 36 A. Yes. 37 Page 25 38 A. Ves. 39 Q. And did any of those in regard to risk factors and ovarian cancer including ovarian cancer? 40 A. Yes. 41 A. Yes. 42 A. Yes. 43 A. Yes. 44 Yes. 45 Q. And did any of those in regard to risk factors and ovarian cancer including ovarian cancer? 45 A. Yes. 46 A. Yes. 47 Yes. 48 Yes. 49 Q. What percentage of your current patients have enalignant. 49 Q. Can you break that down by way of ovarian cancer? 40 A. I'd say about 70 percent of my patients have malignant. 40 Q. Can you break that down by way of ovarian cancer? 40 A. No. 41 Yes. 42 A. Yes. 43 Q. And did any of those	10	•	10	
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8 particularly with regard to talc. 9 Q. Did any of were those in 10 regard to risk factors and ovarian cancer 11 risk? 12 A. Yes. 13 Q. And did any of those 14 materials address the issue of talc one 15 way or another? 16 A. No. 17 Q. So let me clarify my 18 question. Is it accurate, Doctor, that 19 in those presentations that you've 20 created with regard to risk factors for 21 ovarian cancer, you've never made an 22 affirmative statement in any of those 10 probably 30 percent are ovarian. 10 probably 30 percent are ovarian. 11 Q. For the 30 or so percent 12 that have not been diagnosed with a malignancy, do you counsel them with regard to risk factors? 15 MS. CURRY: Objection to form. 16 form. 17 Q. So let me clarify my 18 question. Is it accurate, Doctor, that in those presentations that you've 19 BY MS. GARBER: 20 created with regard to risk factors for 21 ovarian cancer, you've never made an 22 affirmative statement in any of those 23 that talc is not a risk factor; is that 24 way of ovarian cancer? 9 A. Out of that 70 percent, probably 30 percent are ovarian. 10 probably 30 percent are ovarian. 11 Q. For the 30 or so percent 12 Ms. CURRY: Objection to form. 14 regard to risk factors? 15 MS. CURRY: Objection to form. 16 J. With regard to the 18 J. Wasn't done 19 J. Wasn't done 20 Q. With regard to the 21 J. Wasn't done 22 J. With regard to the 23 J. Percent of your patients that have not been diagnosed with malignancy, is it your custom and practice to counsel them	5		4	ovarian cancer? A. I'd say about 70 percent of
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24 true? 24 With regard to risk factors for cancer in	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	and general educational information for the students medical students, residents and fellows. But not particularly with regard to talc. Q. Did any of were those in regard to risk factors and ovarian cancer risk? A. Yes. Q. And did any of those materials address the issue of talc one way or another? A. No. Q. So let me clarify my question. Is it accurate, Doctor, that in those presentations that you've created with regard to risk factors for ovarian cancer, you've never made an affirmative statement in any of those	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	ovarian cancer? A. I'd say about 70 percent of my patients have malignant. Q. Can you break that down by way of ovarian cancer? A. Out of that 70 percent, probably 30 percent are ovarian. Q. For the 30 or so percent that have not been diagnosed with a malignancy, do you counsel them with regard to risk factors? MS. CURRY: Objection to form. MS. GARBER: I wasn't done yet. I'll start again. BY MS. GARBER: Q. With regard to the 30 percent of your patients that have not been diagnosed with malignancy, is it
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1 general? 2 MS. CURRY: 3 form. 4 THE WITNES 5 formal history and 6 history, and I will 7 issues that I may be	v	1 2	any certain risk of any certain type of cancer?
2 MS. CURRY: 3 form. 4 THE WITNES 5 formal history and 6 history, and I will	v	1	cancer?
4 THE WITNES 5 formal history and 6 history, and I will	•	١ - ١	
5 formal history and 6 history, and I will		3	MS. CURRY: Object to the
6 history, and I will	SS: I take a	4	form.
	l a complete	5	THE WITNESS: Well, I'm
7 issues that I may b	address any	6	aware that heavy occupational
		7	exposure to asbestos has been
8 giving a general le	ecture to each	8	determined by at least some to be
9 patient on the risk	factors for	9	a cause of ovarian cancer. So I
10 cancers, it would	only come up in	10	guess if if it came out through
11 questions.	-	11	a history that a patient had
12 BY MS. GARBER:		12	engaged in any of those type of
Q. When you ta	ke a history,	13	practices, it would it would
14 Doctor, do you ask for	•	14	catch my attention.
exposure to asbestos?	•	15	BY MS. GARBER:
16 A. When I'm tak	king a history I	16	Q. Thank you.
do question patients al		17	How many publications do you
18 occupations. And that		18	have to your credit about the causes of
thing I can think of wh		19	ovarian cancer over your career?
20 exposure would likely		20	A. I don't believe any of my
21 Q. Do you know		21	publications are addressing the causes of
takes to conduct an as		22	ovarian cancer.
	Object to form.	23	Q. Women place talcum powder
24 BY MS. GARBER:		24	products on their genitals to stay fresh
	Page 27		Page 29
1 Q. A thorough a	asbestos history	1	and clean, right?
2 of a patient?		2	MS. CURRY: Object to the
	Same objection.	3	form.
	SS: No, I don't.	4	THE WITNESS: I'm not sure
5 BY MS. GARBER:		5	why every individual uses talcum
6 Q. When you ta		6	powder.
7 you ask patients about	*	7	BY MS. GARBER:
8 talcum powder produc	ets?	8	Q. Do you understand that women
9 A. No.		9	place talcum powder products on their
	ask them about	10	genitals?
their occupation and p	out that in the	11	A. Yes, I do.
context of asbestos?	a1.	12	Q. And do you understand that
	Object to the	13	women place talcum powder products on
form.	a.a. mi	14	their body?
	SS: That's not why	15	A. Yes, I do.
16 I'm asking them a		16	Q. And of course, you
17 occupational histo		17	understand that women in the United
thinking, was then	▼	18	States were likely diapered with talcum
	coming up in my	19	powder products, correct?
20 routine questionir		20	MS. CURRY: Object to the
21 that would be the		21	form.
could think of it c	oming up.	22	THE WITNESS: I'm not sure
		1 22	of the fragment of the control of th
23 BY MS. GARBER: 24 Q. And do you:		23 24	of the frequency of using it for diaper.

8 (Pages 26 to 29)

I	Page 30		Page 32
1	BY MS. GARBER:	1	question. So I'll ask it again.
2	Q. But you understand that at	2	Doctor, are you aware of
3	least some portion of the population in	3	data that indicates that there are women
	the United States was diapered with	4	now with ovarian cancer who used talc on
5	talcum powder products, right?	5	their genitals in the 1950s, '60s, and
6	A. I do understand that.	6	'70s, any data?
7	Q. Are you aware of data that	7	MR. MIZGALA: Objection.
8	indicates that there are women now with	8	THE WITNESS: I'm not aware
9	ovarian cancer who use talc on their	9	of any specific data, no.
10	genitals in the 1950s, '60s, and early	10	BY MS. GARBER:
11	1970s?	11	Q. Do you agree generally,
12	A. Could you repeat the	12	Doctor, that there are women now in the
13	question.	13	United States with ovarian cancer who
14	Q. Sure. Are you aware of data	14	were diapered with Johnson & Johnson Baby
15	that indicates that there are women now	15	Powder in the 1950s, '60s, and early
	with ovarian cancer who used talc on	16	1970s?
	their genitals in the 1950s, '60s, and	17	MS. CURRY: Object to the
	early 1970s?	18	form.
19	MR. MIZGALA: Object to	19	THE WITNESS: I don't have
20	form.	20	any specific data on people being
21	MS. GARBER: Are we	21	diapered in the '50s and '60s. So
22	sorry. Are we going to have one	22	no, I'd have to say no.
23	person objecting for the group? I	23	BY MS. GARBER:
24	thought that was CMO 11.	24	Q. Okay. Johnson & Johnson
	Page 31		Page 33
1	MS. SHARKO: No that's not	1	talcum powder products are cosmetic
2	the in the CMO. He doesn't	2	products, not medications, right?
3	represent J&J.	3	A. That's true.
4	MS. GARBER: I thought I	4	Q. There's no medical benefits
5	read one objection was for all.	5	for women to use defendant's talcum
6	MS. SHARKO: Sometimes we do	6	powder products on their genitals, right?
7	that.	7	MS. CURRY: Objection to
8]	BY MS. GARBER:	8	form.
9	Q. Go ahead, Doctor. I forgot	9	THE WITNESS: No, I would
	my question. Do you remember it?	10	disagree with that.
11	A. If you would repeat it, I'd	11	BY MS. GARBER:
	appreciate it.	12	Q. There's medical benefits?
13	Q. Sure. Let me see if you	13	MS. CURRY: Object to the
	answered it. So my question is, are you	14	form.
	aware of data that indicates women now	15	THE WITNESS: I think you're
	with ovarian cancer who used talcum	16	using a term "medical benefit."
	powder products on their genitals in the	17	I'm not sure if you can first
	early 1950s, '60s, and 1970s?	18	clarify what you mean by medical
19	A. I think your question was am	19	benefit.
	aware of any studies that suggest this.	20	BY MS. GARBER:
	And I'd have to say, I'd have to look	21	Q. Sure. You've done a
21	•		11/1 (2)
21 z 22 t	hrough each specific study to see do	22	risk/benefit assessment of, say, a drug
21 z 22 t	•	22 23 24	risk/benefit assessment of, say, a drug or a medication, right? You know what that means, don't you?

Case 3:16-md-02738-MAS-RLS Document 9735-7 Filed 05/07/19 Page 11 of 190 PageID: 36886 Kevin Holcomb, M.D.

1 A. I do. 2 Q. All right. And what do you 3 think that means, when I say a 4 risk/benefit in the context of a 5 medication? 6 A. A risk/benefit would be an 7 analysis of the reason why the person is 8 using the drug versus the risk of using 9 the drug. 10 Q. Right. And so the benefit 11 is the reason they are using the drug, 12 right? 13 A. Right. 14 Q. It has to have some sort of 15 efficacy or benefit, right? 16 A. Right. 17 MS. CURRY: Object to the 18 form. 19 BY MS. GARBER: 19 Q. So my question is now take 20 Q. So my question was, is there a medical benefit. And that's in the eye of the patient who's using it. And I would have to ask her why she's using it. For example, if someone says infections when I'm moist, and I find that talcum keeps me dry and I have less yeast infections, I would say that's probably a medical benefit to that individual. BY MS. GARBER: 19 G. But talcum powder products. 20 Q. So my question is now take 21 that to talc and talcum powder products. 22 There's no medical benefit 22 isn't that true? 23 in that context, is there? 24 MS. CURRY: Object to the 25 THE WITNESS: I'm assuming a practice that has endured for this a preception on the people who are 26 perception on the people who are 27 think that means, when I say a medications that prevent hot flashes. I don't believe anybody can point to a medications that prevent hot flashes. I don't believe anybody can point to a medications that prevent hot flashes. I
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5 perception on the people who are 5 don't believe anybody can point to a
6 using it that they are benefiting 6 specific medical benefit of stopping ho
7 flashes, but there's still medications
8 BY MS. GARBER: 8 for that use.
9 Q. Sure. My question is a 9 Q. Doctor, you've been
10 little different. 10 designated as an expert by Johnson &
Is is there a medical 11 Johnson in the talcum powder litigation
benefit to using talcum powder products 12 in the multi-district litigation; is that
in the same context as, say, a 13 right?
14 medication, drug, something like that? 14 A. That's true.
MS. CURRY: Object to the 15 Q. And you understand that
form. 16 we're here today to take your deposition
THE WITNESS: Yeah, I would 17 to get all your opinions and the bases o
say there is. 18 those opinions so we can prepare for
19 BY MS. GARBER: 19 briefings, hearings, and trial.
Q. There isn't or 20 Do you understand that?
A. There is, I would say. 21 A. Yes.
Q. There is? So you would tell 22 Q. When were you first retained
23 a patient to use talcum powder products 23 in the talcum powder ovarian cancer
for a medical benefit? 24 litigation generally, not in the MDL,

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	Page 38		Page 40
1	just in general?	1	MS. GARBER: I do.
2	A. The Ingham case was my only	2	BY MS. GARBER:
3	other involvement. And I believe that.	3	Q. Doctor, if I could call your
4	That interaction began late. Probably		attention to
	•	4	
5	November let me think. I guess that	5	MS. GARBER: You know what,
6	would be November of 2017 then.	6	I am going to mark this as
7	No, I'm sorry, more like	7	Exhibit 1.
8	January. I think it was more like	8	Can I have that back,
9	January of 2018 then.	9	Doctor?
10	Q. Were there any documents	10	THE WITNESS: Sure.
11	that would refresh your recollection in	11	MS. GARBER: Sorry.
12	that regard?	12	(Document marked for
13	A. Not that I can think of.	13	identification as Exhibit
14	Q. You are not an asbestos	14	Holcomb-1.)
15	expert, are you?	15	BY MS. GARBER:
16	A. No.	16	Q. I don't mean to throw these
17	Q. Before you were hired by	17	at you.
18	Johnson & Johnson regarding talcum powder	18	A. I didn't take offense.
19	products, is it fair to say that your	19	Q. I apologize.
20	understanding of asbestos was pretty	20	So the front page of
21	limited?	21	Exhibit 1 indicates that this is a
22	MS. CURRY: Object to the	22	deposition transcript on May 7th, 2018,
23	form.	23	in the Ingham case; is that correct?
24	THE WITNESS: I'm not sure	24	A. That's correct.
	Page 39		Page 41
1	what you mean by limited.	1	Q. And on the front page it
2	BY MS. GARBER:	2	indicates that you are the deponent,
3	Q. Did you testify that it was	۱ ၁	49
4		3	correct?
4		4	A. That I am the?
5 5	pretty limited in a prior case? MS. CURRY: Object to the		
	pretty limited in a prior case?	4	A. That I am the?
5	pretty limited in a prior case? MS. CURRY: Object to the	4 5	A. That I am the? Q. Person who was being deposed.
5 6 7	pretty limited in a prior case? MS. CURRY: Object to the form. THE WITNESS: When I if I	4 5 6 7	A. That I am the? Q. Person who was being deposed. Does your name
5 6 7 8	pretty limited in a prior case? MS. CURRY: Object to the form. THE WITNESS: When I if I had used the term limited, I guess	4 5 6 7 8	A. That I am the? Q. Person who was being deposed. Does your name A. Yes.
5 6 7	pretty limited in a prior case? MS. CURRY: Object to the form. THE WITNESS: When I if I had used the term limited, I guess I was referring to its role in	4 5 6 7	A. That I am the? Q. Person who was being deposed. Does your name A. Yes. Q. Yes, it is.
5 6 7 8 9	pretty limited in a prior case? MS. CURRY: Object to the form. THE WITNESS: When I if I had used the term limited, I guess I was referring to its role in gynecologic oncology.	4 5 6 7 8 9	A. That I am the? Q. Person who was being deposed. Does your name A. Yes. Q. Yes, it is. And then, Doctor, if you
5 6 7 8 9 10 11	pretty limited in a prior case? MS. CURRY: Object to the form. THE WITNESS: When I if I had used the term limited, I guess I was referring to its role in gynecologic oncology. I'm not an expert in	4 5 6 7 8 9 10	A. That I am the? Q. Person who was being deposed. Does your name A. Yes. Q. Yes, it is. And then, Doctor, if you turn to Page 56 of the transcript, lines
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	Page 42		Page 44
1	limited before you were hired by J&J,	1	entailed what I thought was
2	correct?	2	necessary to offer an opinion on
3	MS. CURRY: Object to the	3	the question of whether talc use
4	form.	4	causes ovarian cancer.
5	THE WITNESS: Your prior	5	BY MS. GARBER:
6	question just asked me about my	6	Q. At the time that you were
7	understanding of of asbestos	7	hired by Johnson & Johnson to do work in
8	and was proceeded by my admitting	8	the MDL, you already harbored harbored
9	that I'm not an asbestos	9	causation opinions based on the work that
10	specialist.	10	you did attendant to the Ingham cases,
11	This testimony has to do	11	correct?
12	with my understanding of the	12	A. That's correct.
13	different fiber types of asbestos.	13	Q. Isn't it true that in the
14	So I think there's a little bit of	14	Ingham case you formed your opinion that
15	a difference in what I was	15	talcum powder products do not cause
16	testifying about here and your	16	ovarian cancer based on review of 61
17	question. But I don't see the	17	published studies provided to you by
18	inconsistency.	18	counsel for Johnson & Johnson?
19	BY MS. GARBER:	19	MS. CURRY: Object to the
20	Q. Okay. Fair enough.	20	form.
21	As to the fibers, before you	21	THE WITNESS: That's
22	were hired by J&J and consulting for	22	that's not true. My opinion that
23	them, you weren't even aware what an	23	tale did not cause ovarian cancer
24	amphibole was, right?	24	preceded my involvement with
	Page 43		Page 45
1	A No	1	
1 2	A. No. O. All right. When were you	1 2	Ingham.
2	Q. All right. When were you	2	Ingham. But, yes, that reliance list
2 3	Q. All right. When were you first retained in the MDL talc	2 3	Ingham. But, yes, that reliance list helped further confirm that
2 3 4	Q. All right. When were you first retained in the MDL talc litigation?	2 3 4	Ingham. But, yes, that reliance list helped further confirm that feeling.
2 3 4 5	Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around	2 3 4 5	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for
2 3 4 5 6	Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018.	2 3 4 5 6	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit
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	Page 46		Page 48
1	today, Doctor?	1	opinion in the Ingham case were the
2	MS. CURRY: Object to the	2	cohort studies which included gate
3	form.	3	Gertig, Gates 2010, Houghton, and
4	THE WITNESS: No, it's not	4	Gonzalez, Heller 1996, and IARC 2010 and
5	any different. The I can't	5	IARC 2012.
6	think of anything that was outside	6	Is that correct?
7	of this data that I reviewed for	7	MS. CURRY: Object to form.
8	this case that I had not seen	8	THE WITNESS: No. You're
9	prior.	9	you're piquing my memory of
10	My testimony today is that	10	this of this because I
11	my opinion about the causal	11	realize I only have two pages of
12	relationship of talc and ovarian	12	it.
13	cancer preceded my involvement in	13	But repeatedly the counsel
14	Ingham. And your question asked	14	who was taking my deposition
15	me, or you stated in your question	15	attempted to limit, as you are
16	that my opinion was developed	16	defining them, as key pieces of
17	during Ingham, or that was my	17	information. My my opinion was
18	understanding of your question.	18	based on the totality of all the
19	And that's all I was trying to	19	data.
20	clarify.	20	That that answer just did
21	BY MS. GARBER:	21	not seem acceptable at the time,
22	Q. Your universe of the data	22	and there was this attempt to
23	that you relied on in the Ingham matter	23	constantly drill down to me
24	consisted of 61 published studies	24	identifying a few studies that I
	Page 47		
	rage 47		Page 49
1	provided to you by counsel for J&J.	1	could say were important, but I
2		2	could say were important, but I repeatedly said then and I imagine
2 3	provided to you by counsel for J&J. MS. CURRY: Object to the form.		could say were important, but I repeatedly said then and I imagine I'll maybe have to do that again
2 3 4	provided to you by counsel for J&J. MS. CURRY: Object to the	2 3 4	could say were important, but I repeatedly said then and I imagine
2 3 4 5	provided to you by counsel for J&J. MS. CURRY: Object to the form. BY MS. GARBER: Q. Right?	2 3 4 5	could say were important, but I repeatedly said then and I imagine I'll maybe have to do that again today, that it is the totality of the data that led me to my
2 3 4 5 6	provided to you by counsel for J&J. MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? A. To be honest, some of the	2 3 4 5 6	could say were important, but I repeatedly said then and I imagine I'll maybe have to do that again today, that it is the totality of
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13 (Pages 46 to 49)

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	Page 50		Page 52
1	So I I'd have to say I	1	that I reviewed the other experts'
2	came across more than than just	2	reports and the literature that
3	what was in my reference list in	3	they were basing their opinions
4	my preparation.	4	on, I did in some cases.
5	BY MS. GARBER:	5	BY MS. GARBER:
6	Q. And in regard to what you	6	Q. Doctor, you understand that
7	just said, reading other experts' reports	7	I am entitled to know the materials that
8	that were involved in the case, is it	8	you read, reviewed and relied upon in
9	true that you read the experts' report,	9	formulating your opinions. You
10	but did not read the underlying studies	10	understand that, right?
11	that were referenced in that given expert	11	A. Yes.
12	report?	12	MS. CURRY: I can possibly
13	A. No.	13	clarify
14	MS. CURRY: Object to the	14	MS. GARBER: I don't
15	form.	15	MS. CURRY: the issue if
16	THE WITNESS: That's exactly	16	it's helpful.
17	the opposite of what I'm saying.	17	MS. GARBER: Let me let
18	I'm saying at times I would read	18	me just finish this line of
19	something in an expert report that	19	questioning, Ms. Curry. Thank you
20	piqued my interest, and I would go	20	very much.
21	back and pull that paper and read	21	BY MS. GARBER:
22	the paper.	22	Q. And, Doctor, is it your
23	BY MS. GARBER:	23	testimony that aside from the reference
24	Q. And then you didn't list it	24	lists that are attached to your expert
	Page 51		Page 53
1	on your reference list?	1	report and the supplemental meterials
		1	report and the supplemental materials,
2	MS. CURRY: Object to the	2	that there are papers that you have
3	form.	2 3	that there are papers that you have reviewed that are not listed there?
3 4	form. THE WITNESS: It was not	2 3 4	that there are papers that you have reviewed that are not listed there? MS. CURRY: Object to the
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	form. THE WITNESS: It was not part of my expert report. My expert report had already been completed. BY MS. GARBER: Q. Did you know that a supplemental reference list was just produced in this matter? A. Yes. Q. Are you telling me that you have reviewed other materials that do not appear on any of the reference lists that are attached to your expert report or the supplemental materials that were just produced on the 25th? MS. CURRY: Object to the form. THE WITNESS: I believe that it I don't know exactly the list that you have of everything I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that there are papers that you have reviewed that are not listed there? MS. CURRY: Object to the form. THE WITNESS: I would have to review my reference list and see what's on there. Or all the information that was handed over to you as far as what I reviewed. But, again, I did look through other experts' reports. If they referenced a study, in most cases, I did not go back and review the study. I just read what they were saying. BY MS. GARBER: Q. Can you think of a given study that you were reading an expert report and it piqued your interest, to use your words, and you went and pulled it and read it? A. No, I can't think of any
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. THE WITNESS: It was not part of my expert report. My expert report had already been completed. BY MS. GARBER: Q. Did you know that a supplemental reference list was just produced in this matter? A. Yes. Q. Are you telling me that you have reviewed other materials that do not appear on any of the reference lists that are attached to your expert report or the supplemental materials that were just produced on the 25th? MS. CURRY: Object to the form. THE WITNESS: I believe that it I don't know exactly the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that there are papers that you have reviewed that are not listed there? MS. CURRY: Object to the form. THE WITNESS: I would have to review my reference list and see what's on there. Or all the information that was handed over to you as far as what I reviewed. But, again, I did look through other experts' reports. If they referenced a study, in most cases, I did not go back and review the study. I just read what they were saying. BY MS. GARBER: Q. Can you think of a given study that you were reading an expert report and it piqued your interest, to use your words, and you went and pulled it and read it?

	Page 54		Page 56
-1		1	
1	MS. GARBER: Go ahead,	1	BY MS. GARBER:
2	Ms. Curry. Maybe you can clarify.	2	Q. Did you prepare the
3	MS. CURRY: Just to clarify,	3	supplemental reference list?
4	we have on the supplemental list,	4	A. Yes. I don't remember if
5	in addition to the expert reports,	5	there's any overlap I'm saying.
6	the deposition transcripts and	6	Q. Did you type it up yourself?
7	exhibits to the depositions, and	7	A. No.
8	so I believe that the additional	8	Q. How was it that that was
9	articles that would have been	9	prepared?
10	reviewed by Dr. Holcomb are	10	A. How was what?
11	included in those exhibits.	11	MS. CURRY: Object to the
12	MS. GARBER: I see. So what	12	form.
13	I'm supposed to do is I'm supposed	13	BY MS. GARBER:
14	to go pull the deposition, and	14	Q. The supplemental reference
15	pull the exhibits and then move	15	list.
16	those forward to the reference	16	A. The lawyers asked me, was
17	list to understand his library?	17	there anything else that I had reviewed,
18	MS. CURRY: It's the	18	and I just gave them a list of which
19	deposition that you actually took	19	papers I had reviewed.
20	of Dr. Saenz, the exhibits that	20	Q. Thank you. What did you do
21	you presented to her in its	21	to prepare for today's deposition?
22	totality were provided to	22	A. I reviewed the epidemiologic
23	Dr. Holcomb after that deposition.	23	papers on talc, and in some cases just
24	Dr. Holcomo after that deposition.	24	
2 4		24	powder use and ovarian cancer.
	Page 55		Page 57
1	BY MS. GARBER:	1	I looked at the basic
2	Q. And which of those papers,	2	science papers, some that addressed
3	after reading Dr. Saenz's deposition,	3	mechanistic questions.
4	which of those strike that.	4	I looked at some of the
5	Which of those exhibits	5	basic science papers on theories of
6	after reading Dr. Saenz's deposition did	6	carcinogenesis.
7	you pull and read, if any?	7	I reviewed that's pretty
8	A. I didn't have to pull any of	8	much it. I pretty much went through that
9	them of them. The paper was in the in	9	body of literature, so
10	the exhibit. And I don't remember which	10	Q. The epidemiological
11	one. I believe there were about 30	11	literature that you looked at appear on
12	exhibits. So if you show me the list I	12	
12 13	exhibits. So if you show me the list I	12 13	the reference lists that are attached to
13	can show you which ones I read.	13	the reference lists that are attached to your expert report and the supplemental
13 14	can show you which ones I read. Q. Did you read every single	13 14	the reference lists that are attached to your expert report and the supplemental reference list that was just produced?
13 14 15	can show you which ones I read. Q. Did you read every single one of them?	13 14 15	the reference lists that are attached to your expert report and the supplemental reference list that was just produced? A. Yes.
13 14 15 16	can show you which ones I read. Q. Did you read every single one of them? A. No.	13 14 15 16	the reference lists that are attached to your expert report and the supplemental reference list that was just produced? A. Yes. Q. And when you say the basic
13 14 15 16 17	can show you which ones I read. Q. Did you read every single one of them? A. No. Q. Do any come to mind?	13 14 15 16 17	the reference lists that are attached to your expert report and the supplemental reference list that was just produced? A. Yes. Q. And when you say the basic science on mechanism of carcinogenicity,
13 14 15 16 17 18	can show you which ones I read. Q. Did you read every single one of them? A. No. Q. Do any come to mind? A. I just said no.	13 14 15 16 17 18	the reference lists that are attached to your expert report and the supplemental reference list that was just produced? A. Yes. Q. And when you say the basic science on mechanism of carcinogenicity, what data are those?
13 14 15 16 17 18	can show you which ones I read. Q. Did you read every single one of them? A. No. Q. Do any come to mind? A. I just said no. Q. Are some of them included in	13 14 15 16 17 18 19	the reference lists that are attached to your expert report and the supplemental reference list that was just produced? A. Yes. Q. And when you say the basic science on mechanism of carcinogenicity, what data are those? MS. CURRY: Object to the
13 14 15 16 17 18 19 20	can show you which ones I read. Q. Did you read every single one of them? A. No. Q. Do any come to mind? A. I just said no. Q. Are some of them included in the supplemental reference list that was	13 14 15 16 17 18 19 20	the reference lists that are attached to your expert report and the supplemental reference list that was just produced? A. Yes. Q. And when you say the basic science on mechanism of carcinogenicity, what data are those? MS. CURRY: Object to the form.
13 14 15 16 17 18 19 20 21	can show you which ones I read. Q. Did you read every single one of them? A. No. Q. Do any come to mind? A. I just said no. Q. Are some of them included in the supplemental reference list that was just produced a couple days ago?	13 14 15 16 17 18 19 20 21	the reference lists that are attached to your expert report and the supplemental reference list that was just produced? A. Yes. Q. And when you say the basic science on mechanism of carcinogenicity, what data are those? MS. CURRY: Object to the form. MS. SHARKO: Can you keep
13 14 15 16 17 18 19 20 21	can show you which ones I read. Q. Did you read every single one of them? A. No. Q. Do any come to mind? A. I just said no. Q. Are some of them included in the supplemental reference list that was just produced a couple days ago? MS. CURRY: Object to the	13 14 15 16 17 18 19 20 21 22	the reference lists that are attached to your expert report and the supplemental reference list that was just produced? A. Yes. Q. And when you say the basic science on mechanism of carcinogenicity, what data are those? MS. CURRY: Object to the form. MS. SHARKO: Can you keep your voice a little louder,
13 14 15 16 17 18 19 20 21 22 23	can show you which ones I read. Q. Did you read every single one of them? A. No. Q. Do any come to mind? A. I just said no. Q. Are some of them included in the supplemental reference list that was just produced a couple days ago? MS. CURRY: Object to the form.	13 14 15 16 17 18 19 20 21 22 23	the reference lists that are attached to your expert report and the supplemental reference list that was just produced? A. Yes. Q. And when you say the basic science on mechanism of carcinogenicity, what data are those? MS. CURRY: Object to the form. MS. SHARKO: Can you keep your voice a little louder, please?
13 14 15 16 17 18 19 20 21	can show you which ones I read. Q. Did you read every single one of them? A. No. Q. Do any come to mind? A. I just said no. Q. Are some of them included in the supplemental reference list that was just produced a couple days ago? MS. CURRY: Object to the	13 14 15 16 17 18 19 20 21 22	the reference lists that are attached to your expert report and the supplemental reference list that was just produced? A. Yes. Q. And when you say the basic science on mechanism of carcinogenicity, what data are those? MS. CURRY: Object to the form. MS. SHARKO: Can you keep your voice a little louder,

1 MS. SHARKO: Thank you. 2 THE WITNESS: Could you 3 repeat the question as well. 4 BY MS. GARBER: 5 Q. The basic science with 6 regard to mechanism of carcinogenicity, what specific studies are those? 8 MS. CURRY: Object to the 9 form. 10 THE WITNESS: I don't 11 remember the specific studies 12 because most of that came from 13 reviewing other experts' expert 14 reports. 15 BY MS. GARBER: 16 Q. Do those studies that you 17 reviewed in connection with preparation 18 for your deposition appear on the 19 reference lists that you have produced? 20 A. Again, in those cases I 21 wasn't pulling the whole paper. I was 22 just reading expert reports. So no, it's 23 not. 24 Q. When you say science with 25 regard to basic science with regard to 26 carcinogens, the theories of carcinogens, 3 that would be your same answer as the 4 prior one; it was in the context of 5 reading expert reports? 6 A. That's true. 7 Q. How many hours did you 8 prepare for today's deposition? 9 A. Do you mean from the 10 beginning of my engagement in the MDL or? 11 Q. Specifically in connection 12 with just getting ready for today. I'm 2 going to get to that, Doctor. And thanks 15 from the time that you woday's deposition, you prepared about today's deposition, you prepared about today's deposition, you prepared about today's deposition, you prepared about abouts today's deposition, you prepared about about stoay's deposition, you prepared about abouts a today's deposition, you prepared about abouts roary's mess. MS. CURRY: Object to the form. THE WITNESS: That's true. 9 MS. CURRY: Object to the form. THE WITNESS: That's true. 9 A. That's true. 10 D. Doctor, in the Ingham case, it was your opinion that occupational exposure to asbestos ovarian cancer; is that correct? MS. CURRY: Object to the form. THE WITNESS: That's true. 9 A. A Again, in those cases I 9 C. And is that still your opinion today? 22 D. And is that still your opinion today? 23 D. And is that still your opinion today? 24 C. When you say science with 25 D. And your pap	
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4 BY MS. GARBER: 5 Q. The basic science with 6 regard to mechanism of carcinogenicity, 7 what specific studies are those? 8 MS. CURRY: Object to the 9 form. 9 form. 10 THE WITNESS: I don't 11 remember the specific studies 12 because most of that came from 13 reviewing other experts' expert 14 reports. 15 BY MS. GARBER: 16 Q. Do those studies that you 17 reviewed in connection with preparation 18 for your deposition appear on the 19 reference lists that you have produced? 20 A. Again, in those cases I 21 wasn't pulling the whole paper. I was 22 just reading expert reports. So no, it's 23 not. 24 Q. When you say science with 25 regard to basic science with regard to 26 carcinogens, the theories of carcinogens, 3 that would be your same answer as the 4 prior one; it was in the context of 5 MS. CURRY: Object to the 6 form. 10 THE WITNESS: That's true. 11 A. Answith my deposition at the context of 12 some critiques of that finding, which included concerns about where 14 prior one; it was in the context of 15 reading expert reports? 16 A. That's true. 17 Page 18 YMS. GARBER: 19 Q. Doctor, in the Ingham case, ovarian cancer; is that correct? 10 MS. CURRY: Object to the 11 form. 12 wasn't pulling the whole paper. I was 12 just reading expert reports. So no, it's 13 not. 14 reports. 15 BY MS. GARBER: 16 Q. Doctor, in the Ingham case, ovarian cancer; is that correct? 16 MS. CURRY: Object to the 17 form. 18 FIF WITNESS: Yes. 19 BY MS. GARBER: 19 Q. Doctor, in the Ingham case, ovarian cancer; is that correct? 10 MS. CURRY: Object to the 11 some critiques of that finding, which included concerns about whe time of Ingham, I was quoting IARC's monograph on the topic. And also offer 11 some critiques of that finding, which included concerns about whe environmental exposures really support the findings or not. And so, you know spent quite a bit of time in the Ingham case, and the context of the findings or not. And so, you know spent quite a bit of time in the Ingham case, and the context of the findings or not. And so, you kno	_
form. Mast specific studies are those? 7	
form. Mast Specific studies are those? 7	
minimum what specific studies are those? MS. CURRY: Object to the form. MS. CURRY: Object to the form. THE WITNESS: I don't 10 hour? A. That's true. Q. Doctor, in the lingham case, it was your opinion that occupational reports. BY MS. GARBER: 12 Q. Doctor, in the lingham case, it was your opinion that occupational reports. BY MS. GARBER: 15 ovarian cancer; is that correct? MS. CURRY: Object to the form. THE WITNESS: That's true. Q. And your pay rate is \$850 an hour? A. That's true. Q. Doctor, in the lingham case, it was your opinion that occupational reports. BY MS. GARBER: 15 ovarian cancer; is that correct? MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: 15 ovarian cancer; is that correct? MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: 15 ovarian cancer; is that correct? MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: 15 ovarian cancer; is that correct? MS. CURRY: Object to the form. THE WITNESS: That's true. Q. And is that still your opinion today? A. As with my deposition at the time of Ingham, I was quoting IARC's monograph on the topic. And also offer reading expert reports? The WITNESS: That's true. Q. A As with my deposition at the time of Ingham, I was quoting IARC's monograph on the topic. And also offer monograph on the topic. And also offer monograph on the topic. And also offer that would be your same answer as the prior one; it was in the context of the findings or not. And so, you know spent quite a bit of time in the Ingham case, it was over it was in the Ingham case, it was in the Ingham case, it was in the Ingham case, it was over opinion today? The WITNESS: Tat's true. Q. How many hours did you the form. Page 59 Some critiques of that finding, which included concerns about whether the prior one; it was in the context of the findings or not. And	
8 MS. CURRY: Object to the 9 form. 9 hour? 11 remember the specific studies 11 A. That's true. 12 because most of that came from 12 Q. Doctor, in the Ingham case, it was your opinion that occupational exposure to asbestos couldn't cause ovarian cancer; is that correct? 13 reviewing other experts' expert 13 it was your opinion that occupational exposure to asbestos couldn't cause ovarian cancer; is that correct? 14 reports. 15 BY MS. GARBER: 15 ovarian cancer; is that correct? 16 Q. Do those studies that you 16 form. 18 for your deposition appear on the 18 reference lists that you have produced? 19 gust reading expert reports. So no, it's 19 just reading expert reports. So no, it's 10 your opinion today? 10 your deposition at the 10 your opinion today? 11 wasn't pulling the whole paper. I was 12 just reading expert reports. So no, it's 12 your opinion today? 12 your opinion today? 13 your opinion today? 14 your opinion today? 15 your opinion today? 16 your same answer as the 17 your opinion today? 17 your opinion today? 18 your opinion today? 18 your opinion today? 19 you have produced oncerns about 19 your opinion today? 19 you have produced oncerns about 10 you have produced oncerns about 10 you have produced oncerns about 11 your opinion today? 19 you have produced oncerns about 11 your opinion today? 19 you have you know 19 you have you hav	
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11 Q. Specifically in connection 11 A. Mm-hmm. 12 with just getting ready for today. I'm 12 Q. Is it your opinion today	
12 with just getting ready for today. I'm 12 Q. Is it your opinion today	
going to get to that, Doctor. And thanks 13 that occupational exposure to asbestos	
	SC
for the clarification. 14 can cause ovarian cancer?	
But just with regard to 15 A. In my it's my opinion	
preparing for today's deposition. 16 that based on the five heavy occupation	ıonal
A. I'm not sure I asked you 17 exposure papers cited in that IARC	
18 if there was a difference. But I guess 18 monograph, that in those specific	
in essence there really isn't. I've been 19 situations, yes, those exposures did	
preparing for this deposition from the 20 contribute to ovarian cancer.	
beginning of my engagement. 21 Q. Doctor, did you testify in	
So I would say probably 22 Ingham that occupational exposure to	0
23 about 90 hours. 23 asbestos can cause ovarian cancer?	
Q. So is it your testimony that 24 MS. CURRY: Object to the	

Case 3:16-md-02738-MAS-RLS Document 9735-7 Filed 05/07/19 Page 18 of 190 PageID: 36893 Kevin Holcomb, M.D.

	Page 62		Page 64
1	form.	1	in that situation, because the
2	THE WITNESS: Again, if I	2	question is so broad to say in an
3	did, it's to the degree of I	3	occupational setting. And I only
4	I don't have any opinion outside	4	have data on a few different
5	of the literature that I read on	5	settings where it was shown. And
6		6	<u> </u>
7	the topic. And the only	7	so I'm going to restrict my
	literature I've read on the topic		opinion to the data I've read, and
8	are those five papers cited in the	8	the data I've read on those
9	monograph. So if I said it during	9	specific occupational settings.
10	Ingham, it's based on the same	10	BY MS. GARBER:
11	data that I'd be saying it based	11	Q. So, Doctor, I'm going to
12	on today.	12	mark as Exhibit 3
13	BY MS. GARBER:	13	(Document marked for
14	Q. Was it your testimony that	14	identification as Exhibit
15	occupational exposure to asbestos can	15	Holcomb-3.)
16	cause ovarian cancer?	16	BY MS. GARBER:
17	MS. CURRY: Object to the	17	Q prior deposition
18	form.	18	testimony in the Ingham matter.
19	THE WITNESS: I believe so.	19	Doctor, this was deposition
20	BY MS. GARBER:	20	testimony from May 7, 2018, right?
21	Q. And is it your opinion today	21	A. Yes.
22	that occupational exposure to asbestos	22	Q. And if you turn to Page 103,
23	can cause ovarian cancer?	23	Lines 7 through 19, it reads:
24	MS. CURRY: Object to the	24	"Question: Do you believe
	Page 63		Page 65
1	form.	1	that asbestos exposure can cause ovarian
2	THE WITNESS: Once again,	2	cancer?"
3	it's my opinion that occupational	3	And your answer is: "Yes.
4	exposure in those settings as	4	We did go over this before and I do
5	described in the IARC monograph,	5	believe that occupational exposure to
6	which would be, you know, the	6	asbestos can cause ovarian cancer."
7	the women who participated in gas	7	And it goes on to say: "Is
8	mask productions, or cement	8	that because you believe that asbestos
9	factories in pre-World War II	9	
			fibers in the ovaries increases the risk
		10	fibers in the ovaries increases the risk of developing ovarian cancer?"
10	Italy, and in those specific	l	of developing ovarian cancer?"
10 11	Italy, and in those specific situations, yes, I think that	10 11	of developing ovarian cancer?" And your answer was: "I
10 11 12	Italy, and in those specific situations, yes, I think that there's enough evidence to deduce	10 11 12	of developing ovarian cancer?" And your answer was: "I have no idea of the mechanism by which it
10 11 12 13	Italy, and in those specific situations, yes, I think that there's enough evidence to deduce that that exposure increased	10 11 12 13	of developing ovarian cancer?" And your answer was: "I have no idea of the mechanism by which it could occur."
10 11 12 13 14	Italy, and in those specific situations, yes, I think that there's enough evidence to deduce that that exposure increased the risk of ovarian cancer.	10 11 12 13 14	of developing ovarian cancer?" And your answer was: "I have no idea of the mechanism by which it could occur." Is that still your testimony
10 11 12 13 14 15	Italy, and in those specific situations, yes, I think that there's enough evidence to deduce that that exposure increased the risk of ovarian cancer. BY MS. GARBER:	10 11 12 13 14 15	of developing ovarian cancer?" And your answer was: "I have no idea of the mechanism by which it could occur." Is that still your testimony today?
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17 (Pages 62 to 65)

Kevin Holcomb, M.D.

Page 66 Page 68 1 testimony and you're not showing 1 that occupational exposure to asbestos 2 him the prior testimony. 2 can cause cancer. 3 MS. GARBER: As you well 3 A. Are you -know, Ms. Curry, the proper 4 4 Q. That's your --5 objection is, "Objection to form." 5 MS. CURRY: Same objections. 6 6 MS. SHARKO: I think she's BY MS. GARBER: 7 7 doing fine. Q. That's your answer, right? 8 A. My answer has a piece of it MS. GARBER: I'm sure you 8 9 9 that you can't, or don't, or you're not do. 10 BY MS. GARBER: 10 interested in. And I think it's just as important as the part that you're 11 Q. Go ahead, Doctor. 11 12 A. So, in my answer I said yes, 12 focusing on that says yes, we did go over 13 we did go over this before, which sort of 13 this before. supports the conversation I was saying 14 14 I'd be happy to go through 15 without all the things I said before, you 15 the entire transcript of this area. I 16 don't know how to interpret that. 16 think you'll find what I'm referring to 17 But I know what -- how to 17 as being consistent, that I was trying to 18 interpret that. It's what I'm just say that my opinions about exposure in 18 saying, we had gone over this multiple 19 19 the occupational setting was restricted 20 times being asked the same question, to the few occupational settings that 20 21 similar to what's happening now. And I 21 were defined in the IARC monograph. And 22 kept restricting it to not stepping 22 that is what I'm trying to tell you now. outside of -- and -- and this is a common 23 23 Because I said we've gone 24 theme that I think we're going to revisit 24 through this before, I'm referring to Page 67 Page 69 1 over and over today. 1 those qualifications. 2 This idea of making comments 2 Q. I'm just trying to get your and conclusions that go outside of the 3 opinions here today. You understand 3 4 specific findings of your studies, and 4 that, right? purists and careful clinicians and 5 5 A. I don't. I don't. I don't 6 scientists don't do that. And so if you 6 think so. Because my opinion on this is 7 ask me does any occupational exposure 7 so clear that I believe that if you're increase your risk of asbestos, how would 8 8 making gas masks in a World War II, or I know? I only have a body of literature 9 pre-World War II or during World War II 9 that looks at specific situations. And factory, or if you're mixing cement in 10 10 that's the only situation that I'm going Italy around the same time, that I'd be 11 11 12 to speak to -- speak about. 12 concerned about your risk of ovarian 13 So when I said yes, we did 13 cancer. 14 go over this before, that's because this 14 Outside of those specific 15 was about who knows how many times I had 15 situations, I don't have an opinion. been asked the same question with the 16 O. You've read the IARC 16 17 same answer. 17 monograph from 2012 with regard to 18 MS. GARBER: Objection. 18 asbestos, right? Motion to strike as nonresponsive. 19 19 A. Yes. Q. And, in fact, it's on your 20 BY MS. GARBER: 2.0 21 Q. Doctor, you answered to the 21 reference list in this matter? 22 question, do you believe that asbestos 22 A. Yes. 23 exposure can cause ovarian cancer, yes. 2.3 Q. And, Doctor, do you think We did go over this. And I do believe 24 24 that the IARC 2002 monograph limits risk

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	Page 70		Page 72
1	of ovarian cancer to occupational	1	I just got. So I apologize.
2	exposure?	2	BY MS. GARBER:
3	MS. CURRY: I believe you	3	Q. Doctor, if you could turn to
4	mean IARC 2012. And objection to	4	Page 219 of the monograph. And, Doctor,
5	form.	5	you can look up here. It will go quicker
6	MS. GARBER: Thank you.	6	this way if you just
7	BY MS. GARBER:	7	A. I'd rather look at it, if
8	Q. So I'll redo that question.	8	that's okay.
9	Doctor, do you think the	9	You said 219. Oh.
10	IARC monograph of 2012 limits risk of	10	Q. Yeah. Why don't you just
11	ovarian cancer to occupational exposure?	11	look up here. I'm just going to read
12	MS. CURRY: Object to the	12	something.
13	form.	13	219, it says, exposure data,
14	THE WITNESS: I'm telling	14	identification of the agent.
15	you my my opinion, which is	15	A. 219 but what I saw at the
16	what I think you're trying to get	16	back.
17	at, is that the only data on	17	Q. Doctor, if you can just look
18	occupational exposure that showed	18	up here.
19	an increased risk of ovarian	19	MS. CURRY: I'm sorry. The
20	cancer were those same specific	20	exhibit that you just handed him
21	settings that I am mentioning to	21	does not have a Page 219, is the
22	you. And so my personal opinion	22	problem.
23	is that I can only speak towards	23	THE WITNESS: So I just I
24	the relationship of asbestos	24	just want to make sure that what
	une returned this or use esteet		Just 11 11 11 11 11 11 11 11 11 11 11 11 11
		I	
	Page 71		Page 73
1	exposure in an occupational	1	you've given me is what you're
2	exposure in an occupational setting and ovarian cancer with	2	you've given me is what you're reading.
2 3	exposure in an occupational setting and ovarian cancer with regard to those specific settings.	1	you've given me is what you're reading. MS. GARBER: Yeah, that's
2 3 4	exposure in an occupational setting and ovarian cancer with regard to those specific settings. (Document marked for	2 3 4	you've given me is what you're reading. MS. GARBER: Yeah, that's fine.
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2 3 4 5 6	exposure in an occupational setting and ovarian cancer with regard to those specific settings. (Document marked for identification as Exhibit Holcomb-4.)	2 3 4 5 6	you've given me is what you're reading. MS. GARBER: Yeah, that's fine. BY MS. GARBER: Q. Why don't you just look up
2 3 4 5 6 7	exposure in an occupational setting and ovarian cancer with regard to those specific settings. (Document marked for identification as Exhibit Holcomb-4.) BY MS. GARBER:	2 3 4 5 6 7	you've given me is what you're reading. MS. GARBER: Yeah, that's fine. BY MS. GARBER: Q. Why don't you just look up here at the Elmo.
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19 (Pages 70 to 73)

	Page 74		Page 76
1	MS. CURRY: This is the one	1	this monograph about asbestos and its
2	page. I have the full.	2	carcinogenic risks apply to these six
3	THE WITNESS: Okay. So	3	types of fibers wherever they are found."
4	BY MS. GARBER:	4	And I'm going to assume that the
5	Q. So at Page 219, Doctor, do	5	conclusions are going to be based on the
6	you see that it says asbestos, and then	6	studies that they cite.
7	it lists the different fibers, correct?	7	Q. Doctor, we don't want to
8	The different types of asbestos?	8	make conclusions. My question is, does
9	A. I don't know can you	9	that what the monograph say?
10	please	10	A. That's what the monograph
11	Q. The title. The title.	11	Q. Did I read that correctly?
12	A. Yes.	12	A. You read the monograph
13	Q. The top.	13	correctly.
14	A. The correct.	14	Q. And I have no further
15	Q. All right. And then under	15	question for you.
16	exposure data, Number 1, it says,	16	MS. GARBER: Motion to
17	"Identification of the agent."	17	strike everything besides saying
18	Do you see that?	18	yes, that's what it says.
19	A. Yes.	19	MS. SHARKO: Does that mean
20	Q. And then about halfway	20	that we're done for today?
21	through the paragraph, it says, "The	21	BY MS. GARBER:
22	conclusions reached in this monograph	22	
23	about asbestos and its carcinogenic	23	Q. Doctor, is that what the
24	risk"	24	monograph says on Page 219?
21	115K	24	A. That's what the monograph
	Page 75		Page 77
1	A. I'm sorry. I'm still just	1	says. I disagree with that. Yes.
2	getting up to where you are.	2	Q. Okay. What part do you
3	Q. Just look just look up at		
	Q. vast foot Jast foot up at	3	disagree with?
4	here, Doctor.	3 4	disagree with? MS. CURRY: Object to the
4 5	here, Doctor. A. Ma'am, if it's okay with	4 5	MS. CURRY: Object to the form.
4	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get	4	MS. CURRY: Object to the form. THE WITNESS: I think I
4 5 6 7	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see.	4 5 6 7	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I
4 5 6 7 8	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see. I'm going to use this if you just bear	4 5 6 7 8	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I think that a lot of what we're
4 5 6 7 8 9	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see. I'm going to use this if you just bear with me.	4 5 6 7 8 9	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I think that a lot of what we're going to get into today makes that
4 5 6 7 8 9	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see. I'm going to use this if you just bear with me. Q. Okay. Well, then you can	4 5 6 7 8 9	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I think that a lot of what we're going to get into today makes that same mistake. You can't make
4 5 6 7 8 9 10	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see. I'm going to use this if you just bear with me.	4 5 6 7 8 9 10	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I think that a lot of what we're going to get into today makes that same mistake. You can't make conclusions about things that you
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4 5 6 7 8 9 10 11 12 13 14 15	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see. I'm going to use this if you just bear with me. Q. Okay. Well, then you can look up here to see where I'm reading. A. I've got you. Q. Okay. "The conclusions reached in this monograph about asbestos and its carcinogenic risks apply to these	4 5 6 7 8 9 10 11 12 13 14 15	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I think that a lot of what we're going to get into today makes that same mistake. You can't make conclusions about things that you haven't studied. And if you only study a certain setting, and you're able to show that in this setting it causes ovarian cancer,
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4 5 6 7 8 9 10 11 12 13 14 15 16 17	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see. I'm going to use this if you just bear with me. Q. Okay. Well, then you can look up here to see where I'm reading. A. I've got you. Q. Okay. "The conclusions reached in this monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found, and that includes talc containing	4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I think that a lot of what we're going to get into today makes that same mistake. You can't make conclusions about things that you haven't studied. And if you only study a certain setting, and you're able to show that in this setting it causes ovarian cancer, how can you reliably expand that finding to situations that you've
4 5 6 7 8 9 10 11 12 13 14 15 16	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see. I'm going to use this if you just bear with me. Q. Okay. Well, then you can look up here to see where I'm reading. A. I've got you. Q. Okay. "The conclusions reached in this monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found, and that includes talc containing asbestiform fibers."	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I think that a lot of what we're going to get into today makes that same mistake. You can't make conclusions about things that you haven't studied. And if you only study a certain setting, and you're able to show that in this setting it causes ovarian cancer, how can you reliably expand that finding to situations that you've never even looked at?
4 5 6 7 8 9 10 11 12 13 14 15 16 17	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see. I'm going to use this if you just bear with me. Q. Okay. Well, then you can look up here to see where I'm reading. A. I've got you. Q. Okay. "The conclusions reached in this monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found, and that includes talc containing	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I think that a lot of what we're going to get into today makes that same mistake. You can't make conclusions about things that you haven't studied. And if you only study a certain setting, and you're able to show that in this setting it causes ovarian cancer, how can you reliably expand that finding to situations that you've never even looked at? And I don't care if IARC
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see. I'm going to use this if you just bear with me. Q. Okay. Well, then you can look up here to see where I'm reading. A. I've got you. Q. Okay. "The conclusions reached in this monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found, and that includes talc containing asbestiform fibers." Correct? Is that what it	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I think that a lot of what we're going to get into today makes that same mistake. You can't make conclusions about things that you haven't studied. And if you only study a certain setting, and you're able to show that in this setting it causes ovarian cancer, how can you reliably expand that finding to situations that you've never even looked at? And I don't care if IARC
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	here, Doctor. A. Ma'am, if it's okay with you, we went through the trouble to get this because it's easier for me to see. I'm going to use this if you just bear with me. Q. Okay. Well, then you can look up here to see where I'm reading. A. I've got you. Q. Okay. "The conclusions reached in this monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found, and that includes talc containing asbestiform fibers." Correct? Is that what it says? A. That's what it says. Q. Doctor, that's my only	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. CURRY: Object to the form. THE WITNESS: I think I was getting at this before, and I think that a lot of what we're going to get into today makes that same mistake. You can't make conclusions about things that you haven't studied. And if you only study a certain setting, and you're able to show that in this setting it causes ovarian cancer, how can you reliably expand that finding to situations that you've never even looked at? And I don't care if IARC puts it in writing and says they are going to do that. The question is, do I accept that? Do

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	Page 78		Page 80
1	gas masks, that means it causes	1	settings where they found that
2	cancer in any other situation.	2	it's associated with, there are
3	I think that's clearly is	3	weaknesses in their findings. To
4	what IARC said they did. I think	4	extend that definition outside to
5	that's a problem. And I already	5	any occupational exposure that
6	explained to you some of the other	6	they haven't examined, I think is
7	issues that I have with IARC. I	7	problematic.
8	mean, we all can make mistakes.	8	BY MS. GARBER:
9	There's other issues with IARC. I	9	Q. Doctor, what was my
10	mean, the studies, even in the	10	question?
11	ones that I accept, there's	11	A. Did IARC make that
12	misclassification issues.	12	statement, and I said yes.
13	In fact, if you look at the	13	Q. Thank you.
14	studies where they do pathologic	14	MS. GARBER: Motion to
15	confirmation, the increased risk	15	strike everything besides that.
16	is attenuated to the baseline.	16	MS. SHARKO: Well, that
17		17	*
	And so, you know, part of my		wasn't the question you asked. BY MS. GARBER:
18	being able to give my opinion here	18	
19	is my years of practice. And I've	19	Q. Doctor, you disagree
20	had the experience of debulking	20	MS. CURRY: He answered your
21	somebody who I thought had ovarian	21	question.
22	cancer who ended up having	22	MS. O'DELL: All right,
23	mesothelioma.	23	Susan. We went over this
24	So I know the difficulties	24	earlier I think not earlier
	Page 79		Page 81
1	in being able to tell the	1	this week, last week. I think
2	difference between the two.	1	
		2	Dawn is doing the objections.
3	BY MS. GARBER:	2 3	Dawn is doing the objections. There's no need for you to add the
3 4	BY MS. GARBER:	1	There's no need for you to add the
	BY MS. GARBER: Q. Doctor, I'm going to get to	3	There's no need for you to add the commentary.
4	BY MS. GARBER: Q. Doctor, I'm going to get to your report.	3 4	There's no need for you to add the commentary. MS. SHARKO: Well, why
4 5	BY MS. GARBER: Q. Doctor, I'm going to get to your report. MS. CURRY: Were you	3 4 5	There's no need for you to add the commentary. MS. SHARKO: Well, why why are you talking if it's one
4 5 6 7	BY MS. GARBER: Q. Doctor, I'm going to get to your report. MS. CURRY: Were you finished with your response?	3 4 5 6 7	There's no need for you to add the commentary. MS. SHARKO: Well, why why are you talking if it's one lawyer per side? You should have
4 5 6	BY MS. GARBER: Q. Doctor, I'm going to get to your report. MS. CURRY: Were you finished with your response? THE WITNESS: No.	3 4 5 6	There's no need for you to add the commentary. MS. SHARKO: Well, why why are you talking if it's one lawyer per side? You should have been there yesterday when you had
4 5 6 7 8	BY MS. GARBER: Q. Doctor, I'm going to get to your report. MS. CURRY: Were you finished with your response? THE WITNESS: No. And I'm also aware that, you	3 4 5 6 7 8 9	There's no need for you to add the commentary. MS. SHARKO: Well, why why are you talking if it's one lawyer per side? You should have
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21 (Pages 78 to 81)

	Page 82		Page 84
1	BY MS. GARBER:	1	it says.
2	Q. Doctor, we will get to your	2	It says, "Consumer products,
3	report and what you say about asbestos.	3	e.g., cosmetic, pharmaceuticals, are the
4	My question was simply,	4	primary sources of exposure to talc for
5	Number 1, at Page 219 where I read: "Is	5	the general population. Inhalation and
6	that what the monograph says?"	6	dermal contact through" "i.e., through
7	And I think your testimony	7	perineal application of talcum powders,
8	was, yes, that's what the monograph says,	8	are the primary routes of exposure."
9	correct?	9	Did I read that correctly?
10	A. That's what the monograph	10	A. Yes.
11		11	
12	says.	12	Q. So that is indicating that
	Q. All right. And then I		talcum powder products and exposure in
13	wanted to show you next at Page 232 with	13	the general population, correct?
14	regard to your testimony about the	14	MS. CURRY: Object to form.
15	populations?	15	BY MS. GARBER:
16	A. I'm sorry.	16	Q. That's on Page 232?
17	Q. 232	17	A. I I just want to I
18	A. 232, right.	18	know we're only picking out this one page
19	Q under human exposure.	19	to read, but it's a little confusing to
20	A. This is the	20	me since we had started reading a
21	Q. Are you there?	21	monograph on asbestos and this seems to
22	A. I'm just a little confused,	22	be dealing with talc.
23	because this is talking about talc. And	23	So I turn one page back.
24	we were talking about asbestos.	24	This is a section on talc containing
	Page 83		Page 85
1	Are we in the same	1	asbestiform fibers.
2	Q. Are you	2	So this area that we are
3	A. I think I'm in a	3	talking about I I don't know if
4	different	4	they are talking about what I'm a
		=	
5	O are you on Page 232?		•
5 6	Q are you on Page 232? A. Yes, but I don't know if I'm	5 6	little unclear of what they are talking
6	A. Yes, but I don't know if I'm	5 6	little unclear of what they are talking about here, with the general are they
6 7	A. Yes, but I don't know if I'm reading the same thing you are. You are	5 6 7	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are
6 7 8	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on	5 6 7 8	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure.
6 7 8 9	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos.	5 6 7 8 9	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help
6 7 8 9 10	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the	5 6 7 8 9 10	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you.
6 7 8 9 10 11	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong	5 6 7 8 9 10 11	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you.
6 7 8 9 10 11 12	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is	5 6 7 8 9 10 11 12	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219.
6 7 8 9 10 11 12 13	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh,	5 6 7 8 9 10 11 12 13	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes.
6 7 8 9 10 11 12 13 14	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one.	5 6 7 8 9 10 11 12 13 14	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says,
6 7 8 9 10 11 12 13 14 15	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one. Q. Okay. Doctor, under 1.6.5,	5 6 7 8 9 10 11 12 13 14 15	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says, "The conclusions reached by the monograph
6 7 8 9 10 11 12 13 14 15	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one. Q. Okay. Doctor, under 1.6.5, it says, "Human Exposure"?	5 6 7 8 9 10 11 12 13 14 15 16	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says, "The conclusions reached by the monograph about asbestos and its carcinogenic risks
6 7 8 9 10 11 12 13 14 15 16	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one. Q. Okay. Doctor, under 1.6.5, it says, "Human Exposure"? A. Yeah.	5 6 7 8 9 10 11 12 13 14 15 16 17	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says, "The conclusions reached by the monograph about asbestos and its carcinogenic risks apply to these six types of fibers
6 7 8 9 10 11 12 13 14 15 16 17	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one. Q. Okay. Doctor, under 1.6.5, it says, "Human Exposure"? A. Yeah. Q. And then it indicates	5 6 7 8 9 10 11 12 13 14 15 16 17	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says, "The conclusions reached by the monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found thereby
6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one. Q. Okay. Doctor, under 1.6.5, it says, "Human Exposure"? A. Yeah. Q. And then it indicates "Exposure of the General Population."	5 6 7 8 9 10 11 12 13 14 15 16 17 18	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says, "The conclusions reached by the monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found thereby meaning asbestos and that includes
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one. Q. Okay. Doctor, under 1.6.5, it says, "Human Exposure"? A. Yeah. Q. And then it indicates "Exposure of the General Population." Is that the heading?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says, "The conclusions reached by the monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found thereby meaning asbestos and that includes talc containing asbestiform fibers."
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one. Q. Okay. Doctor, under 1.6.5, it says, "Human Exposure"? A. Yeah. Q. And then it indicates "Exposure of the General Population." Is that the heading? A. Exposure of the general	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says, "The conclusions reached by the monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found thereby meaning asbestos and that includes talc containing asbestiform fibers." So this monograph applies to
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one. Q. Okay. Doctor, under 1.6.5, it says, "Human Exposure"? A. Yeah. Q. And then it indicates "Exposure of the General Population." Is that the heading? A. Exposure of the general population. And it's yeah, exposure	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says, "The conclusions reached by the monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found thereby meaning asbestos and that includes talc containing asbestiform fibers." So this monograph applies to both talc containing asbestiform fibers,
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one. Q. Okay. Doctor, under 1.6.5, it says, "Human Exposure"? A. Yeah. Q. And then it indicates "Exposure of the General Population." Is that the heading? A. Exposure of the general population. And it's yeah, exposure to talc for the general population.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says, "The conclusions reached by the monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found thereby meaning asbestos and that includes talc containing asbestiform fibers." So this monograph applies to both talc containing asbestiform fibers, and asbestos.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes, but I don't know if I'm reading the same thing you are. You are talking about the monograph on Q. On asbestos. A. Right. I think I'm in the wrong Q. No, that is that is A. This is the right one? Oh, 2012. So this is the one. Q. Okay. Doctor, under 1.6.5, it says, "Human Exposure"? A. Yeah. Q. And then it indicates "Exposure of the General Population." Is that the heading? A. Exposure of the general population. And it's yeah, exposure	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	little unclear of what they are talking about here, with the general are they talking about asbestiform fibers? Are they talking about I'm not sure. Q. Let me see if I can help you. A. Thank you. Q. So turning back to 219. A. Yes. Q. Where the monograph says, "The conclusions reached by the monograph about asbestos and its carcinogenic risks apply to these six types of fibers wherever they are found thereby meaning asbestos and that includes talc containing asbestiform fibers." So this monograph applies to both talc containing asbestiform fibers,

	Page 86		Page 88
1	correct?	1	testifying a bit ago, right?
2	A. This goes to the question of	2	A. That's true.
3	what I disagree with, because what you're	3	Q. All right. But it goes on,
4	saying is that if they study asbestos in	4	doesn't it, Doctor? It says, "The
5	these heavy occupational exposures, that	5	conclusion received" "the conclusion
6	means you should then extend these	6	received additional support from studies
7	findings to other clinical settings	7	showing that women and girls with
8	outside of that. And so yes, I get	8	environmental, but not occupational
9	what you're saying and that's exactly	9	exposure to asbestos," right?
10	what I was saying I disagreed with.	10	A. This is what I was
11	Q. Do you I guess I don't	11	maybe maybe it wasn't clear what I was
12	know what your what your opinion is,	12	referring to when you asked me earlier
13	so I'll ask it.	13	what I disagreed with.
14	You understand that this	14	And I talked about the
15	monograph from 2012 applies to asbestos	15	limitations of the IARC monograph. I
16	and asbestiform tale, you understand	16	mentioned this issue, that they'll make
17	that, right?	17	these statements and then they give you a
18	A. Yes.	18	couple of papers to go look at; Ferante,
19	Q. Thank you.	19	et al., and Reid, et al.
20		20	
21	Doctor, in your expert	21	When you go back and you
22	report and just a minute ago, you were	22	look at those studies, they actually come
	talking about the misdiagnosis of ovarian		to the exact opposite conclusion, that
23	cancer and peritoneal mesothelioma. Do	23	women in those settings did not have an
24	you recall that?	24	increased risk of ovarian cancer. And
	Daga 97		
	Page 87		Page 89
1	A. I said misclassification.	1	Page 89 yet the IARC authors say that their
1 2		1 2	
	A. I said misclassification.		yet the IARC authors say that their findings were supported. So they have
2	A. I said misclassification.Q. Okay. And, we'll turn to	2	yet the IARC authors say that their
2	A. I said misclassification.Q. Okay. And, we'll turn to that part of your expert report in a bit.	2 3	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased
2 3 4	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could	2 3 4	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies
2 3 4 5	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph.	2 3 4 5	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show
2 3 4 5 6	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel?	2 3 4 5 6	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to
2 3 4 5 6 7	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three?	2 3 4 5 6 7	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a
2 3 4 5 6 7 8	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three? A. You said 356, sand and	2 3 4 5 6 7 8	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a discrepancy, it's actually in support of.
2 3 4 5 6 7 8	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three? A. You said 356, sand and gravel.	2 3 4 5 6 7 8	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a discrepancy, it's actually in support of. And I am supposed to read
2 3 4 5 6 7 8 9	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three? A. You said 356, sand and gravel. Q. 256. I apologize.	2 3 4 5 6 7 8 9	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a discrepancy, it's actually in support of. And I am supposed to read this and agree with that.
2 3 4 5 6 7 8 9 10	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three? A. You said 356, sand and gravel. Q. 256. I apologize. A. Okay.	2 3 4 5 6 7 8 9 10	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a discrepancy, it's actually in support of. And I am supposed to read this and agree with that. Q. You disagree with IARC and
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three? A. You said 356, sand and gravel. Q. 256. I apologize. A. Okay. Q. Okay. If you look at the right-hand column. We'll we'll start with the first full paragraph which reads the working group are we together?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a discrepancy, it's actually in support of. And I am supposed to read this and agree with that. Q. You disagree with IARC and their findings with regard A. No, and if they regard Q. Hold on, Doctor. A. Yes. Okay. Q. You disagree with IARC and their findings with regard to asbestos
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three? A. You said 356, sand and gravel. Q. 256. I apologize. A. Okay. Q. Okay. If you look at the right-hand column. We'll we'll start with the first full paragraph which reads the working group are we together? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a discrepancy, it's actually in support of. And I am supposed to read this and agree with that. Q. You disagree with IARC and their findings with regard A. No, and if they regard Q. Hold on, Doctor. A. Yes. Okay. Q. You disagree with IARC and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three? A. You said 356, sand and gravel. Q. 256. I apologize. A. Okay. Q. Okay. If you look at the right-hand column. We'll we'll start with the first full paragraph which reads the working group are we together? A. Yes. Q. Okay. "The working group	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a discrepancy, it's actually in support of. And I am supposed to read this and agree with that. Q. You disagree with IARC and their findings with regard A. No, and if they regard Q. Hold on, Doctor. A. Yes. Okay. Q. You disagree with IARC and their findings with regard to asbestos
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three? A. You said 356, sand and gravel. Q. 256. I apologize. A. Okay. Q. Okay. If you look at the right-hand column. We'll we'll start with the first full paragraph which reads the working group are we together? A. Yes. Q. Okay. "The working group noted that a causal association between exposure to asbestos and cancer of the ovary was clearly established based on	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a discrepancy, it's actually in support of. And I am supposed to read this and agree with that. Q. You disagree with IARC and their findings with regard A. No, and if they regard Q. Hold on, Doctor. A. Yes. Okay. Q. You disagree with IARC and their findings with regard to asbestos and asbestiform talc and its carcinogenicity as it relates to the ovary, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three? A. You said 356, sand and gravel. Q. 256. I apologize. A. Okay. Q. Okay. If you look at the right-hand column. We'll we'll start with the first full paragraph which reads the working group are we together? A. Yes. Q. Okay. "The working group noted that a causal association between exposure to asbestos and cancer of the ovary was clearly established based on five strongly positive cohort mortality	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a discrepancy, it's actually in support of. And I am supposed to read this and agree with that. Q. You disagree with IARC and their findings with regard A. No, and if they regard Q. Hold on, Doctor. A. Yes. Okay. Q. You disagree with IARC and their findings with regard to asbestos and asbestiform talc and its carcinogenicity as it relates to the ovary, correct? MS. CURRY: Object to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I said misclassification. Q. Okay. And, we'll turn to that part of your expert report in a bit. But since you brought it up, if you could turn to Page 356 of the monograph. A. Sand and gravel? Q. It's did I say three? A. You said 356, sand and gravel. Q. 256. I apologize. A. Okay. Q. Okay. If you look at the right-hand column. We'll we'll start with the first full paragraph which reads the working group are we together? A. Yes. Q. Okay. "The working group noted that a causal association between exposure to asbestos and cancer of the ovary was clearly established based on five strongly positive cohort mortality studies of women with heavy occupational	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	yet the IARC authors say that their findings were supported. So they have five strong studies showing an increased risk of ovarian cancer. Two studies in in environmental settings that show no increases of ovarian cancer come to the conclusion that that is not a discrepancy, it's actually in support of. And I am supposed to read this and agree with that. Q. You disagree with IARC and their findings with regard A. No, and if they regard Q. Hold on, Doctor. A. Yes. Okay. Q. You disagree with IARC and their findings with regard to asbestos and asbestiform tale and its carcinogenicity as it relates to the ovary, correct? MS. CURRY: Object to the form.

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	Page 90		Page 92
1	opinions about the carcinogenicity	1	form.
2	of asbestos with ovarian cancer to	2	THE WITNESS: I believe I
3	the settings where it was shown to	3	have. I'm disagreeing with you.
4	increase ovarian cancer.	4	BY MS. GARBER:
5	If you ask me about settings	5	Q. Because
6	where the studies explicitly show	6	A. I'm saying
7	it did not increase ovarian	7	Q. Because you
8		8	A because I reviewed
9	cancer, I don't accept that it increases ovarian cancer in those	9	IARC
10		10	
	situations.	1	MS. CURRY: Sorry. You
11	I don't understand how a	11	can't talk over one another.
12	reasonable person could. If you	12	Do you want to finish your
13	read a study that says it did not	13	response?
14	increase risk of ovarian cancer in	14	THE WITNESS: My
15	a situation, why would you then	15	understanding is that IARC,
16	conclude that it does?	16	because so many other groups rely
17	BY MS. GARBER:	17	on their findings to inform their
18	Q. Have you done a thorough and	18	opinions, that they are tasked
19	comprehensive assessment of the	19	with doing a comprehensive review
20	literature as it pertains to asbestos and	20	of the literature on the topic.
21	ovarian cancer?	21	And so yes, I feel like if I
22	MS. CURRY: Object to the	22	reviewed what they reviewed, I've
23	form.	23	done a comprehensive review as
24	THE WITNESS: To be honest,	24	well.
	Page 91		Page 93
1	I'm hoping that IARC would have	1	DV MC CADDED.
		1 +	BY MS. GARBER:
2	done an extensive study of the	2	Q. With regard to the
2 3			
	done an extensive study of the	2	Q. With regard to the
3	done an extensive study of the literature. So my only as I've	2 3	Q. With regard to the misclassification issue that you
3 4	done an extensive study of the literature. So my only as I've already admitted, I'm not an asbestos specialist, so my	2 3 4	Q. With regard to the misclassification issue that you testified about, Doctor, if you could
3 4 5	done an extensive study of the literature. So my only as I've already admitted, I'm not an asbestos specialist, so my understanding of asbestos and	2 3 4 5	Q. With regard to the misclassification issue that you testified about, Doctor, if you could look back at Page 256. A. Yes.
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3 4 5 6	done an extensive study of the literature. So my only as I've already admitted, I'm not an asbestos specialist, so my understanding of asbestos and ovarian cancer is limited to IARC. And if they've done an	2 3 4 5 6 7	Q. With regard to the misclassification issue that you testified about, Doctor, if you could look back at Page 256. A. Yes. Q. It indicates, "The working group carefully considered the
3 4 5 6 7 8 9	done an extensive study of the literature. So my only as I've already admitted, I'm not an asbestos specialist, so my understanding of asbestos and ovarian cancer is limited to IARC. And if they've done an extensive review to reach their	2 3 4 5 6 7 8	Q. With regard to the misclassification issue that you testified about, Doctor, if you could look back at Page 256. A. Yes. Q. It indicates, "The working group carefully considered the possibility that cases of peritoneal
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	Page 94		Page 96
1	cases. But I'm aware that they actually	1	A. Yes.
2	did not go back and do a histologic	2	Q. And asbestiform talc?
3	evaluation of every case.	3	A. Yes.
4	What I'm also aware of is	4	Q. Thank you.
5	that specific cases that do	5	Do you agree, Doctor, that
6	systematically go back and have	6	asbestos and asbestiform talc are Group 1
7	pathologic confirmation somehow come to a	7	carcinogens under IARC 2012?
8	different conclusion than the studies	8	A. I agree.
9	that don't do that. And so I'm still	9	Q. Doctor, if talcum powder
10	left wondering, if you do a systematic	10	products contain asbestos, talcum powder
11	pathology review and classify them, you	11	products contain a Group 1 carcinogen?
12	don't find an increased risk. If you	12	MS. CURRY: Object to the
13	don't do a systematic pathology	13	form.
14	confirmation, you find an increased risk.	14	THE WITNESS: Excuse me?
15	I'm like IARC, I'm not	15	BY MS. GARBER:
16	convinced that misclassification has been	16	Q. You just testified that
17	totally ruled out because I can't	17	asbestos is a Group 1 carcinogen, right?
18	understand why these two different types	18	A. Yes.
19	of studies are coming you see, you're	19	Q. And
20	losing consistency then.	20	A. According to IARC, yes.
21	Q. IARC found otherwise.	21	Q. Okay. And if, it's a
22	A. I just admitted that I have	22	hypothetical, talcum powder products
23	a different opinion.	23	contain asbestos, then those talcum
24	Q. So your review as to the	24	powder products contain a Group 1
	Page 95		
	rage 73		Page 97
1	issue of asbestos and asbestiform talc	1	Page 97 carcinogen, right?
1 2		1 2	
	issue of asbestos and asbestiform talc		carcinogen, right?
2	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC	2	carcinogen, right? A. That would be IARC's
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can move on. My opinion of asbestos and its ability to cause cancer of the ovary are restricted to the studies of heavy occupational exposure in which they actually found an increased risk of ovarian cancer. BY MS. GARBER: Q. And your review to come to your opinions is limited to IARC 2012? MS. CURRY: Object to form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said it's a substance that can cause cancer. So on one hand you're asking if it contains this substance that IARC has deemed a Level 1 carcinogen, would it contain that carcinogen? By definition, yes. You said if I take that supposition. I would just say I'm looking at, and I was asked to review the literature on talc. And you asked me what do I consider talc, and I said Johnson & Johnson and Shower to Shower.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can move on. My opinion of asbestos and its ability to cause cancer of the ovary are restricted to the studies of heavy occupational exposure in which they actually found an increased risk of ovarian cancer. BY MS. GARBER: Q. And your review to come to your opinions is limited to IARC 2012? MS. CURRY: Object to form. THE WITNESS: As far as asbestos?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said it's a substance that can cause cancer. So on one hand you're asking if it contains this substance that IARC has deemed a Level 1 carcinogen, would it contain that carcinogen? By definition, yes. You said if I take that supposition. I would just say I'm looking at, and I was asked to review the literature on talc. And you asked me what do I consider talc, and I said Johnson & Johnson and Shower to Shower. Is that a carcinogen? And now that goes back to my
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can move on. My opinion of asbestos and its ability to cause cancer of the ovary are restricted to the studies of heavy occupational exposure in which they actually found an increased risk of ovarian cancer. BY MS. GARBER: Q. And your review to come to your opinions is limited to IARC 2012? MS. CURRY: Object to form. THE WITNESS: As far as asbestos? BY MS. GARBER:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said it's a substance that can cause cancer. So on one hand you're asking if it contains this substance that IARC has deemed a Level 1 carcinogen, would it contain that carcinogen? By definition, yes. You said if I take that supposition. I would just say I'm looking at, and I was asked to review the literature on talc. And you asked me what do I consider talc, and I said Johnson & Johnson and Shower to Shower. Is that a carcinogen? And now that goes back to my definition of carcinogen. Can that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can move on. My opinion of asbestos and its ability to cause cancer of the ovary are restricted to the studies of heavy occupational exposure in which they actually found an increased risk of ovarian cancer. BY MS. GARBER: Q. And your review to come to your opinions is limited to IARC 2012? MS. CURRY: Object to form. THE WITNESS: As far as asbestos?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said it's a substance that can cause cancer. So on one hand you're asking if it contains this substance that IARC has deemed a Level 1 carcinogen, would it contain that carcinogen? By definition, yes. You said if I take that supposition. I would just say I'm looking at, and I was asked to review the literature on talc. And you asked me what do I consider talc, and I said Johnson & Johnson and Shower to Shower. Is that a carcinogen? And now that goes back to my

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	Page 98		Page 100
1	you know you've already asked, would be	1	clarify my opinion, because my
2	no.	2	opinion is really, I think,
3	Q. Well, so I'll go back to my	3	clearly what I'm stating.
4	question.	4	I'm saying that asbestos and
5	Assume that talcum powder	5	its relationship to ovarian cancer
6	products contain asbestos, then they	6	has been clearly shown in a few
7	contain a Group 1 carcinogen, right?	7	very unlikely situations ever to
8	MS. CURRY: Object to form.	8	happen again. And those are those
9	THE WITNESS: You know,	9	prospective cohort studies.
10	we're sort of tying all these	10	I'm saying that IARC,
11	things together. I already	11	extending that outside of those
12	explained that I disagreed with	12	situations that they have not
13	IARC's definition of at least its	13	studied, that's when I'm going to
14	role of outside of those heavy	14	go to what are people actually
15	occupational exposures, which are	15	using in that bottle.
16	the only studies that they cite	16	And if that's asbestos in
17	which shows an increased risk of	17	that bottle, I'm closing this
18	ovarian cancer.	18	book, and I'm opening the talc
19	So you're saying would IARC	19	monograph, because that all the
20	consider that in talc as a	20	studies that they discuss in that
21	carcinogen, the asbestos, and I'm	21	talc monograph are these products,
22	saying yes, they considered in	22	the Johnson & Johnson products.
23	your supposition, would	23	I would be going to the
24	asbestiform talc be considered a	24	case-control studies in my report.
and the state of t	Page 99		Page 101
1	Group 1. I would say according to	1	I'd be going to the prospective
2	IARC, yes.	2	trials in my report.
3	I'm just clarifying to say	3	I don't understand why we
4	that the whole point of me being	4	would use such an indirect
5	here is to give an opinion whether	5	comparison, finding something in
6	that supposition that you just	6	this book to help us figure out
7	said, if there is asbestos in Baby	7	does that product cause cancer
8	Powder, Johnson & Johnson's	8	when there's been so much research
9	product, is that a carcinogen?	9	using what's in that bottle that
10	And my answer would be no,	10	have results.
11	because I don't see convincing	11	BY MS. GARBER:
12	and we're going to go through I'm	12	Q. Doctor, my question was just
13	sure all the reasons that I don't	13	way more broad than what what you're
14	believe that. But I don't believe	14	answering.
15	that it proves that it's a	15	Do you agree with IARC that
16	carcinogen.	16	asbestos is a Group I carcinogen? I
17	BY MS. GARBER:	17	didn't mention ovarian cancer. I said do
18	Q. So then, you disagree with	18	you agree with IARC that asbestos is a
19	IARC that asbestos is not a Group 1	19	Group I carcinogen?
20	carcinogen?	20	MS. CURRY: Object to the
21	MS. CURRY: Object to form.	21	form.
22	THE WITNESS: No. You're	22	THE WITNESS: Yes. In
23	oversimplifying my statement. And	23	certain settings.
24	I can't believe it's to really	24	BY MS. GARBER:

26 (Pages 98 to 101)

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	Page 102		Page 104
1	Q. And so now if we put a	1	Q. Your file for this matter is
2	Group I carcinogen in a bottle of talc,	2	your report?
3	then the corollary is that the bottle of	3	A. Yes.
4	talc contains a Group I carcinogen,	4	Q. Does it consist of anything
5	right?	5	else?
6	A. That would be true.	6	A. Does my report consist of
7	MS. CURRY: Object to the	7	anything else?
8	form.	8	Q. No.
9	BY MS. GARBER:	9	Is it your testimony,
10	Q. Thank you.	10	Doctor, that your file in this matter in
11	So let's mark your notice of	11	the MDL consists of your expert report,
12	deposition as Exhibit 5.	12	which is dated February 25, 2019?
13	(Document marked for	13	MS. CURRY: Object to the
14	identification as Exhibit	14	form.
15	Holcomb-5.)	15	THE WITNESS: Yes.
16	BY MS. GARBÉR:	16	BY MS. GARBER:
17	Q. Doctor, we've marked as	17	Q. You don't have any other
18	Exhibit 5 your notice of deposition for	18	documents?
19	today's proceeding. Did you review this	19	A. No.
20	before today?	20	Q. And do you have any
21	A. At some point I did.	21	document any scientific literature
22	Q. When did you review it?	22	that consists of your file?
23	A. When?	23	MS. CURRY: Object to the
24	Q. Mm-hmm.	24	form.
	Page 103		Page 105
1	A. When it was first produced.	1	THE WITNESS: I don't
2	Q. And did you review the	2	understand your question.
3	documents	3	BY MS. GARBER:
4	MS. GARBER: And I	4	Q. You've reviewed a number of
5	understand you've made objections,	5	studies that appear on the reference
6	Ms. Curry.	6	lists attached to your expert report,
7	BY MS. GARBER:	7	correct?
8	Q. But did you review the	8	A. Correct.
9	documents that we asked you to produce?	9	Q. Where physically are those
10	A. Yes.	10	literature?
11	Q. And did you endeavor to	11	A. When you say where
12	comply with that and provide those	12	physically?
13	documents?	13	Q. Mm-hmm.
14	A. Yes.	14	A. The I I did most of
15	Q. And have you brought with	15	my almost all of it electronically.
16	you Item 3, a copy of your complete files	16	Q. You didn't receive hard
17	as they relate to the work done	17	copies of any documents?
18	concerning talcum powder litigation?	18	A. The expert reports I
19	MS. CURRY: Object to the	19	received as a hardcopy.
20	form.	20	Q. What about with regard to
21	THE WITNESS: Yes.	21	published literature. Did you review
	BY MS. GARBER:	22	any did you receive any hard copies of
22		22	
23	Q. And where is that file?	23	those?
		23 24	

27 (Pages 102 to 105)

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	Page 106		Page 108
1	Q. You did receive hard copies	1	that Johnson & Johnson provided you that
2	from the Ingham matter, correct?	2	you relied upon in forming your opinions?
3	A. I did. And I quickly asked	3	A. No.
4	for electronic copies.	4	Q. Relating to your opinions as
5	Q. And did you make any notes	5	set forth in your February 25, 2019,
6	on those 61 studies that you received in	6	litigation report, have you made any
7	connection with Ingham?	7	assumptions?
8	MS. CURRY: Object to the	8	A. Please repeat that?
9	form.	9	Q. Sure. Relating to your
10	THE WITNESS: No.	10	opinions in your expert report in this
11	BY MS. GARBER:	11	matter, have you made any assumptions?
12	Q. With regard to the	12	MS. CURRY: Object to the
13	literature that you reviewed in	13	form.
14	connection with this matter, did you make	14	THE WITNESS: No.
15	any notes electronically on the data?	15	BY MS. GARBER:
16	A. No.	16	Q. Do you assume, in coming to
17	Q. Do you have the data saved	17	your causation opinions regarding talcum
18	in a certain file in your computer?	18	powder products, that they are free of
19	A. Yes. I imagine it's	19	asbestos?
20	probably somewhere in my download list,	20	A. I don't have an opinion on
21	in my download area.	21	it.
22	Q. Like a DropBox?	22	Q. Do you have an opinion as to
23	A. No. I'm saying like if it	23	whether Johnson & Johnson products,
24	was sent electronically, when I	24	talcum powder products, are free of
21	was sent electronically, when I		taleum powder products, are nee or
	Page 107		Page 109
1	downloaded it, I would imagine it must be	1	fibrous tale?
2	in the download part of my computer.	2	A. No, I don't have an opinion.
3	Q. Have you I don't	3	Q. Do you have an opinion if
4	understand when you say download of a	4	Johnson & Johnson talcum powder products
5	computer, where that would be?		Johnson & Johnson talcum bowder broducts
	1 /	5	
6	A. If you get a ZIP file, and	5	contain heavy metals like nickel,
6 7	A. If you get a ZIP file, and you open it, it's actually downloading	5 6 7	contain heavy metals like nickel, chromium, cobalt and the like?
7	you open it, it's actually downloading	1 2 3 4 5 6 7 8	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the
7 8	you open it, it's actually downloading stuff to your computer.		contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form.
7 8 9	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay.	8 9	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have
7 8 9 10	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all	8 9 10	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form.
7 8 9 10 11	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your	8 9 10 11	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER:
7 8 9 10 11 12	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all	8 9 10 11 12	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion
7 8 9 10 11 12 13	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter?	8 9 10 11 12 13	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder
7 8 9 10 11 12 13 14	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes.	8 9 10 11 12 13 14	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances?
7 8 9 10 11 12 13 14 15	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the	8 9 10 11 12 13 14 15	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the
7 8 9 10 11 12 13 14 15	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections.	8 9 10 11 12 13 14 15	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form.
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7 8 9 10 11 12 13 14 15 16 17	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all	8 9 10 11 12 13 14 15 16 17	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion.
7 8 9 10 11 12 13 14 15 16 17 18	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all references that identify facts, or data	8 9 10 11 12 13 14 15 16 17 18	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion. BY MS. GARBER:
7 8 9 10 11 12 13 14 15 16 17 18 19 20	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all references that identify facts, or data that Johnson & Johnson lawyers provided	8 9 10 11 12 13 14 15 16 17 18 19 20	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion. BY MS. GARBER: Q. In the Ingham matter, you
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all references that identify facts, or data that Johnson & Johnson lawyers provided you and you considered in formulating	8 9 10 11 12 13 14 15 16 17 18 19 20 21	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion. BY MS. GARBER: Q. In the Ingham matter, you had no opinion whether Johnson &
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all references that identify facts, or data that Johnson & Johnson lawyers provided you and you considered in formulating your opinions?	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion. BY MS. GARBER: Q. In the Ingham matter, you had no opinion whether Johnson & Johnson's talcum powder products
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all references that identify facts, or data that Johnson & Johnson lawyers provided you and you considered in formulating	8 9 10 11 12 13 14 15 16 17 18 19 20 21	contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion. BY MS. GARBER: Q. In the Ingham matter, you had no opinion whether Johnson &

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	Page 110		Page 112
1	no.	1	Q. And it lists 95 hours of
2	Q. Is that still the case?	2	expert work?
3	A. Still the case.	3	A. Yes, it does.
4	(Document marked for	4	Q. And at a rate of \$850?
5	identification as Exhibit	5	A. Yes.
6	Holcomb-6.)	6	Q. And so you've invoiced
7	BY MS. GARBER:	7	Johnson & Johnson for \$80,750, right?
8	Q. I'll mark as Exhibit 6 the	8	A. That's correct.
9	production that was made, I think, the	9	Q. Have you been paid?
10	25th.	10	A. No.
11	Doctor, this is a single	11	Q. And are there any other
12	document that is printed on both sides,	12	hours that you intend to invoice Johnson
13	and we'll start with the side that is	13	& Johnson for?
14	titled "Expert Report of Kevin Holcomb	14	A. Yes.
15	For General Or Causation Daubert Hearing,	15	MS. CURRY: Object to the
16	Supplemental Materials Received and	16	form.
17	Reviewed By Dr. Kevin Holcomb."	17	BY MS. GARBER:
18	Doctor, is this the	18	Q. And how many hours would
19	supplemental materials that you reviewed	19	that entail?
20	after you issued your expert report?	20	A. Depends on how long we go
21	A. Yes.	21	today and the few hours yesterday.
22	Q. Do you need to add any	22	Q. How many hours yesterday?
23	further documents to this list to make it	23	A. Maybe about four.
24	accurate?	24	Q. And do you intend to bill
21	accurate:		Q. This do you intend to oil
	Page 111		Page 113
			_
1	A. No.	1	Johnson & Johnson for any work in
2	Q. And when did you review the	1 2	Johnson & Johnson for any work in preparation of today's deposition before
			Johnson & Johnson for any work in preparation of today's deposition before the deposition started today?
2 3 4	Q. And when did you review the scientific studies that are listed there?A. When you say scientific?	2	Johnson & Johnson for any work in preparation of today's deposition before
2	Q. And when did you review the scientific studies that are listed there?	2 3	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today?
2 3 4	Q. And when did you review the scientific studies that are listed there?A. When you say scientific?	2 3 4	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No.
2 3 4 5	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed	2 3 4 5	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No.
2 3 4 5 6 7 8	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and	2 3 4 5 6 7 8	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work
2 3 4 5 6 7 8	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10?	2 3 4 5 6 7 8	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No.
2 3 4 5 6 7 8 9	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading	2 3 4 5 6 7 8 9	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No.
2 3 4 5 6 7 8 9 10	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading Dr. Saenz's deposition. So I don't know.	2 3 4 5 6 7 8 9 10	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid
2 3 4 5 6 7 8 9 10 11 12	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading	2 3 4 5 6 7 8 9 10 11 12	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid with regard to your work in the Ingham
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2 3 4 5 6 7 8 9 10 11 12 13	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading Dr. Saenz's deposition. So I don't know. Maybe about a week, week and a half ago. Q. Okay. And then if we turn the document over, does this reflect an	2 3 4 5 6 7 8 9 10 11 12 13 14	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid with regard to your work in the Ingham case? A. In total, it was \$100,300.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading Dr. Saenz's deposition. So I don't know. Maybe about a week, week and a half ago. Q. Okay. And then if we turn the document over, does this reflect an invoice issued by you on March 25th,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid with regard to your work in the Ingham case? A. In total, it was \$100,300. Q. And so in connection with your work today for Johnson & Johnson in connection with talcum powder products,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading Dr. Saenz's deposition. So I don't know. Maybe about a week, week and a half ago. Q. Okay. And then if we turn the document over, does this reflect an invoice issued by you on March 25th, 2019, to Johnson & Johnson for expert	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid with regard to your work in the Ingham case? A. In total, it was \$100,300. Q. And so in connection with your work today for Johnson & Johnson in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading Dr. Saenz's deposition. So I don't know. Maybe about a week, week and a half ago. Q. Okay. And then if we turn the document over, does this reflect an invoice issued by you on March 25th, 2019, to Johnson & Johnson for expert services?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid with regard to your work in the Ingham case? A. In total, it was \$100,300. Q. And so in connection with your work today for Johnson & Johnson in connection with talcum powder products,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading Dr. Saenz's deposition. So I don't know. Maybe about a week, week and a half ago. Q. Okay. And then if we turn the document over, does this reflect an invoice issued by you on March 25th, 2019, to Johnson & Johnson for expert services? A. Yes, it does.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid with regard to your work in the Ingham case? A. In total, it was \$100,300. Q. And so in connection with your work today for Johnson & Johnson in connection with talcum powder products, ovarian cancer litigation, you have thus
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading Dr. Saenz's deposition. So I don't know. Maybe about a week, week and a half ago. Q. Okay. And then if we turn the document over, does this reflect an invoice issued by you on March 25th, 2019, to Johnson & Johnson for expert services? A. Yes, it does. Q. And it indicates as to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid with regard to your work in the Ingham case? A. In total, it was \$100,300. Q. And so in connection with your work today for Johnson & Johnson in connection with talcum powder products, ovarian cancer litigation, you have thus at least invoiced and/or been paid for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading Dr. Saenz's deposition. So I don't know. Maybe about a week, week and a half ago. Q. Okay. And then if we turn the document over, does this reflect an invoice issued by you on March 25th, 2019, to Johnson & Johnson for expert services? A. Yes, it does. Q. And it indicates as to the description for literature review, drafting of expert report, and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid with regard to your work in the Ingham case? A. In total, it was \$100,300. Q. And so in connection with your work today for Johnson & Johnson in connection with talcum powder products, ovarian cancer litigation, you have thus at least invoiced and/or been paid for roughly 183 almost \$184,000; is that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading Dr. Saenz's deposition. So I don't know. Maybe about a week, week and a half ago. Q. Okay. And then if we turn the document over, does this reflect an invoice issued by you on March 25th, 2019, to Johnson & Johnson for expert services? A. Yes, it does. Q. And it indicates as to the description for literature review,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid with regard to your work in the Ingham case? A. In total, it was \$100,300. Q. And so in connection with your work today for Johnson & Johnson in connection with talcum powder products, ovarian cancer litigation, you have thus at least invoiced and/or been paid for roughly 183 almost \$184,000; is that fair?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And when did you review the scientific studies that are listed there? A. When you say scientific? Q. Aside from the depositions and expert reports, when did you review each of those papers that are listed there, specifically Items 1, 2, 8, 9 and 10? A. That came after reading Dr. Saenz's deposition. So I don't know. Maybe about a week, week and a half ago. Q. Okay. And then if we turn the document over, does this reflect an invoice issued by you on March 25th, 2019, to Johnson & Johnson for expert services? A. Yes, it does. Q. And it indicates as to the description for literature review, drafting of expert report, and preparation for deposition; is that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Johnson & Johnson for any work in preparation of today's deposition before the deposition started today? A. No. Q. Do you have a different rate for your deposition A. No. Q as opposed to other work that you do? A. No. Q. How much money were you paid with regard to your work in the Ingham case? A. In total, it was \$100,300. Q. And so in connection with your work today for Johnson & Johnson in connection with talcum powder products, ovarian cancer litigation, you have thus at least invoiced and/or been paid for roughly 183 almost \$184,000; is that fair? MS. CURRY: Object to the

29 (Pages 110 to 113)

	Page 114		Page 116
1	BY MS. GARBER:	1	with some degree of how strong I thought
2	Q. How much?	2	the studies were, how subject they might
3	A. You said invoiced and been	3	be to spurious results.
4	paid?	4	I looked to see if there was
5	Q. Yeah, so, so you have to	5	consistency. I looked to see if there
6	date earned \$103,000, correct?	6	was a biologic plausibility that involved
7	A. Correct.	7	mainly looking at migration issues. And
8	Q. And then you've invoiced	8	then in a totality came up with my
9	Johnson & Johnson for \$80,750, correct?	9	opinion about the ability of talc to
10	A. Correct.	10	cause ovarian cancer.
11	Q. Plus the hours that you just	11	Q. If we turn to your
12	mentioned?	12	references which appear beginning at Page
13	A. Correct.	13	25 through 33. And in addition the
14	Q. Is that the totality of the	14	supplemental references, there are more
15	compensation that you have received, or	15	than the 61 references that you had in
16	will receive up through today's	16	connection with the Ingham trial,
17	deposition?	17	correct?
18	A. That is.	18	A. Yes.
19	Q. Thank you.	19	Q. Did you request any other
20	(Document marked for	20	documents or literature from counsel?
21	identification as Exhibit	21	MS. CURRY: Object to the
22	Holcomb-7.)	22	form.
23	BY MS. GARBER:	23	THE WITNESS: No.
24	Q. I'm going to mark your	24	BY MS. GARBER:
	Page 115		Page 117
_			
1	expert report in the MDL as Exhibit 7.	1	O. And is it accurate that all
1 2	expert report in the MDL as Exhibit 7. You signed this document on	1 2	Q. And is it accurate that all of the documents that are listed on your
	You signed this document on	l	of the documents that are listed on your
2		2	
2 3	You signed this document on February 25, 2019, correct? A. Correct.	2 3	of the documents that are listed on your reference lists, which include what's attached to your report and the
2 3 4	You signed this document on February 25, 2019, correct? A. Correct.	2 3 4	of the documents that are listed on your reference lists, which include what's
2 3 4 5	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation	2 3 4 5	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by
2 3 4 5 6	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder	2 3 4 5 6	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel?
2 3 4 5 6 7	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have	2 3 4 5 6 7	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the
2 3 4 5 6 7 8 9	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any	2 3 4 5 6 7 8	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I
2 3 4 5 6 7 8 9 10	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have	2 3 4 5 6 7 8 9 10 11	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones.
2 3 4 5 6 7 8 9 10 11 12	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No.	2 3 4 5 6 7 8 9 10 11 12	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I
2 3 4 5 6 7 8 9 10 11 12 13	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process	2 3 4 5 6 7 8 9 10 11	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel.
2 3 4 5 6 7 8 9 10 11 12 13	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions	2 3 4 5 6 7 8 9 10 11 12 13 14	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER:
2 3 4 5 6 7 8 9 10 11 12 13 14 15	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I looked at well, I guess my methodology	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No. Q. Are there any materials that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I looked at well, I guess my methodology would really be following Bradford Hill's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No. Q. Are there any materials that you relied upon in forming your opinions
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I looked at well, I guess my methodology would really be following Bradford Hill's methodology, because in reviewing that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No. Q. Are there any materials that you relied upon in forming your opinions that are not listed in your reference
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I looked at well, I guess my methodology would really be following Bradford Hill's methodology, because in reviewing that data I looked at the strengths of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No. Q. Are there any materials that you relied upon in forming your opinions that are not listed in your reference lists that we've reviewed?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	You signed this document on February 25, 2019, correct? A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I looked at well, I guess my methodology would really be following Bradford Hill's methodology, because in reviewing that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of the documents that are listed on your reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No. Q. Are there any materials that you relied upon in forming your opinions that are not listed in your reference

	Page 118		Page 120
1	THE WITNESS: Other than	1	Q. What were your what was
2	what I've already told you that I	2	your search engine?
3	came across in expert reports.	3	A. PubMed as you mentioned.
4	BY MS. GARBER:	4	Sometimes Google.
5	Q. And in drafting your expert	5	Q. And what were your search
6	report, you have not made any notes; is	6	terms?
7	that correct?	7	A. Ovarian cancer, talc,
8	A. If you mean written, no. I	8	perineal talc and ovarian cancer, body
9	would as the manuscript was being	9	powder and ovarian cancer. It depended
10	produced, I would make points. But it	10	what I was looking for.
11	all became incorporated in the end into a	11	There was some points I'm
12	final product.	12	making in my expert report where I'm
13	Q. What was the process by	13	using analogies. And so I was looking at
14	which you developed your report? Did you	14	HPV and cervical cancer or herpes simplex
15	read a study and then make some notes or	15	virus and cervical cancer. And so it
16	mental notes, or write? Tell me the	16	it depended on what I was what I was
17	process by which you	17	looking at at the moment.
18	MS. CURRY: Object to the	18	Q. What did you do, Google
19	form.	19	searches?
20	THE WITNESS: I typically	20	A. I'm guilty of using Google
21	worked with two monitors. And one	21	from now and then to start a search.
22	I'm writing the manuscript. The	22	
23	<u> </u>	23	It's sometimes faster. It will bring up PubMed articles.
24	other one, I'm bringing up papers. BY MS. GARBER:	24	
24	DI MS. UARDER.	24	Q. Did have you read, since
	Page 119		Page 121
1	Q. Okay. So there's no notes	1	the production of your supplemental
2	that you made before you started to sit	2	reference list, have you read any other
3	down and write your expert report; is	3	expert reports or depositions or other
4	that correct?	4	studies?
5	MS. CURRY: Object to the	5	A. Since?
6	form.	6	Q. Since the production of your
7	THE WITNESS: No.	7	supplemental expert report which was
8	BY MS. GARBER:	8	marked as Exhibit 6.
9	Q. It's not correct?	9	MS. CURRY: Object to the
	2	1	
10	A. There are no notes.	10	form. You mean supplemental
10 11		10	form. You mean supplemental materials received list?
	Q. There are thank you.		materials received list?
11	Q. There are thank you.Did you read every word of	11 12	materials received list? MS. GARBER: Yes.
11 12	Q. There are thank you.	11	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's
11 12 13	Q. There are thank you. Did you read every word of the documents listed in your reference list?	11 12 13 14	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's see. Yes, there's one other
11 12 13 14	Q. There are thank you. Did you read every word of the documents listed in your reference list? A. Yes.	11 12 13 14 15	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's see. Yes, there's one other one other paper, and that was a
11 12 13 14 15 16	Q. There are thank you. Did you read every word of the documents listed in your reference list? A. Yes. Q. Did you when you said you	11 12 13 14 15 16	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's see. Yes, there's one other one other paper, and that was a migration paper. But I believe it
11 12 13 14 15 16 17	Q. There are thank you. Did you read every word of the documents listed in your reference list? A. Yes. Q. Did you when you said you obtained some of the references, is that	11 12 13 14 15 16 17	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's see. Yes, there's one other one other paper, and that was a migration paper. But I believe it just came out. It was
11 12 13 14 15 16 17 18	Q. There are thank you. Did you read every word of the documents listed in your reference list? A. Yes. Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert	11 12 13 14 15 16 17 18	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's see. Yes, there's one other one other paper, and that was a migration paper. But I believe it just came out. It was BY MS. GARBER:
11 12 13 14 15 16 17 18 19	Q. There are thank you. Did you read every word of the documents listed in your reference list? A. Yes. Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert reports or depositions?	11 12 13 14 15 16 17 18 19	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's see. Yes, there's one other one other paper, and that was a migration paper. But I believe it just came out. It was BY MS. GARBER: Q. What's the title?
11 12 13 14 15 16 17 18 19 20	Q. There are thank you. Did you read every word of the documents listed in your reference list? A. Yes. Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert reports or depositions? A. No.	11 12 13 14 15 16 17 18 19 20	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's see. Yes, there's one other one other paper, and that was a migration paper. But I believe it just came out. It was BY MS. GARBER: Q. What's the title? A. I don't remember.
11 12 13 14 15 16 17 18 19 20 21	Q. There are thank you. Did you read every word of the documents listed in your reference list? A. Yes. Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert reports or depositions? A. No. Q. Did you conduct any	11 12 13 14 15 16 17 18 19 20 21	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's see. Yes, there's one other one other paper, and that was a migration paper. But I believe it just came out. It was BY MS. GARBER: Q. What's the title? A. I don't remember. Q. Or the author?
11 12 13 14 15 16 17 18 19 20 21 22	Q. There are thank you. Did you read every word of the documents listed in your reference list? A. Yes. Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert reports or depositions? A. No. Q. Did you conduct any searches, say, Medline searches or PubMed	11 12 13 14 15 16 17 18 19 20 21 22	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's see. Yes, there's one other one other paper, and that was a migration paper. But I believe it just came out. It was BY MS. GARBER: Q. What's the title? A. I don't remember. Q. Or the author? A. It was I don't know who
11 12 13 14 15 16 17 18 19 20 21	Q. There are thank you. Did you read every word of the documents listed in your reference list? A. Yes. Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert reports or depositions? A. No. Q. Did you conduct any	11 12 13 14 15 16 17 18 19 20 21	materials received list? MS. GARBER: Yes. THE WITNESS: Only let's see. Yes, there's one other one other paper, and that was a migration paper. But I believe it just came out. It was BY MS. GARBER: Q. What's the title? A. I don't remember. Q. Or the author?

31 (Pages 118 to 121)

	Page 122		Page 124
1	A. Cramer was was involved.	1	expert reports or depositions after the
2	I don't remember the first author though.	2	supplemental reference list?
3	Q. What was the nature of that	3	A. No.
4	paper?	4	O. And it is accurate that
5	A. It was	5	prior to signing your expert report on
6	MS. CURRY: Object to the	6	February 25, 2019, you had not read the
7	form.	7	recent Saed 2019 paper with regard to a
8	THE WITNESS: It was a paper	8	molecular basis supporting the
9	looking at an attempt to try to	9	association of talcum powder use with
10	differentiate contamination from	10	increased risk of ovarian cancer, right?
11	actual migration of talc	11	MS. CURRY: Object to the
12	particles.	12	form.
13	BY MS. GARBER:	13	THE WITNESS: I'm sorry, can
14	Q. What did you glean from that	14	you repeat the question again?
15	paper, Doctor?	15	Prior to
16	MS. CURRY: Object to the	16	BY MS. GARBER:
17	form.	17	
18	THE WITNESS: The biggest		Q. Sure.
19	thing that I gleaned was that	18	Prior to signing your expert
		19	report on February 25, 2019, you had not
20	contamination is it's probably	20	read Dr. Saed's 2019 publication,
21	even more widespread than I	21	correct?
22	realized. And I appreciated the	22	A. That's true.
23	effort to try to distinguish	23	MS. CURRY: Same objection.
24	between the two, but I wasn't	24	Sorry.
	7 100		
	Page 123		Page 125
1	convinced that you can	1	BY MS. GARBER:
1 2	convinced that you can necessarily.	1 2	
	convinced that you can		BY MS. GARBER:
2	convinced that you can necessarily.	2	BY MS. GARBER: Q. Prior to signing your expert
2	convinced that you can necessarily. BY MS. GARBER:	2 3	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you
2 3 4	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there	2 3 4	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with
2 3 4 5	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface	2 3 4 5	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction,
2 3 4 5 6	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply	2 3 4 5 6	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct?
2 3 4 5 6 7	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue?	2 3 4 5 6 7	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true.
2 3 4 5 6 7 8	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking	2 3 4 5 6 7 8	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20
2 3 4 5 6 7 8	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they	2 3 4 5 6 7 8 9	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break?
2 3 4 5 6 7 8 9	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between	2 3 4 5 6 7 8 9	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a
2 3 4 5 6 7 8 9 10	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles	2 3 4 5 6 7 8 9 10 11	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're
2 3 4 5 6 7 8 9 10 11	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node	2 3 4 5 6 7 8 9 10 11 12	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't
2 3 4 5 6 7 8 9 10 11 12 13	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node itself, yes. Q. Does that paper provide a	2 3 4 5 6 7 8 9 10 11 12 13	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're going to be close to lunch so We'll be planning on
2 3 4 5 6 7 8 9 10 11 12 13 14	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node itself, yes. Q. Does that paper provide a basis for any of your expert opinions	2 3 4 5 6 7 8 9 10 11 12 13 14	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're going to be close to lunch so We'll be planning on breaking around 12 or
2 3 4 5 6 7 8 9 10 11 12 13 14 15	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node itself, yes. Q. Does that paper provide a	2 3 4 5 6 7 8 9 10 11 12 13 14 15	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're going to be close to lunch so We'll be planning on breaking around 12 or MS. CURRY: Sorry. I
2 3 4 5 6 7 8 9 10 11 12 13 14 15	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node itself, yes. Q. Does that paper provide a basis for any of your expert opinions today? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're going to be close to lunch so We'll be planning on breaking around 12 or MS. CURRY: Sorry. I thought he had a message from the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node itself, yes. Q. Does that paper provide a basis for any of your expert opinions today? A. No. Q. You did not rely upon you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're going to be close to lunch so We'll be planning on breaking around 12 or MS. CURRY: Sorry. I thought he had a message from the hospital, so I wanted to make sure
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node itself, yes. Q. Does that paper provide a basis for any of your expert opinions today? A. No. Q. You did not rely upon you do not rely upon the Cramer we'll call	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're going to be close to lunch so We'll be planning on breaking around 12 or MS. CURRY: Sorry. I thought he had a message from the hospital, so I wanted to make sure if he needs to take a break.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node itself, yes. Q. Does that paper provide a basis for any of your expert opinions today? A. No. Q. You did not rely upon you do not rely upon the Cramer we'll call it Cramer contamination paper for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're going to be close to lunch so We'll be planning on breaking around 12 or MS. CURRY: Sorry. I thought he had a message from the hospital, so I wanted to make sure if he needs to take a break. We've been going over an hour,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node itself, yes. Q. Does that paper provide a basis for any of your expert opinions today? A. No. Q. You did not rely upon you do not rely upon the Cramer we'll call it Cramer contamination paper for purposes of your expert opinions; is that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're going to be close to lunch so We'll be planning on breaking around 12 or MS. CURRY: Sorry. I thought he had a message from the hospital, so I wanted to make sure if he needs to take a break. We've been going over an hour, Susan, so whenever is a good time
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node itself, yes. Q. Does that paper provide a basis for any of your expert opinions today? A. No. Q. You did not rely upon you do not rely upon the Cramer we'll call it Cramer contamination paper for purposes of your expert opinions; is that fair?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're going to be close to lunch so We'll be planning on breaking around 12 or MS. CURRY: Sorry. I thought he had a message from the hospital, so I wanted to make sure if he needs to take a break. We've been going over an hour, Susan, so whenever is a good time for you.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	convinced that you can necessarily. BY MS. GARBER: Q. Did the authors there attempt to distinguish surface contamination from talc that was deeply embedded in the tissue? A. Well, they were only looking at lymph nodes from my memory. So they were trying to distinguish between particles on the surface and particles that are in, deeper inside the lymph node itself, yes. Q. Does that paper provide a basis for any of your expert opinions today? A. No. Q. You did not rely upon you do not rely upon the Cramer we'll call it Cramer contamination paper for purposes of your expert opinions; is that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. GARBER: Q. Prior to signing your expert report on February 25, 2019, likewise you had not read Dr. Saed's abstract with regard to talc and ROS induction, correct? A. That's true. Q. You indicate at Page 20 MS. CURRY: Do you need a break? THE WITNESS: Well, I wasn't sure if I it looks like we're going to be close to lunch so We'll be planning on breaking around 12 or MS. CURRY: Sorry. I thought he had a message from the hospital, so I wanted to make sure if he needs to take a break. We've been going over an hour, Susan, so whenever is a good time

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	Page 126		Page 128
1	guys	1	they do acknowledge that, but they
2	THE WITNESS: I'm fine for a	2	don't they don't describe it.
3	break.	3	They just say considered limited
4	MS. GARBER: You want to	4	evidence to the contrary and find
5	take a break?	5	it non-persuasive.
6	THE WITNESS: Yeah, I'd	6	My review of the literature
7	appreciate it.	7	on this topic, I was looking for
8	MS. GARBER: Okay.	8	some studies showing that you
9	THE VIDEOGRAPHER: Please	9	could dust the human vulva with
10	remove your microphones. The time	10	talc and show that those particles
11	is 11:28 a.m. Going off the	11	can make it to the ovary, and I
12	record.	12	couldn't find a single study in
13	(Short break.)	13	that situation.
14	THE VIDEOGRAPHER: Okay. We	14	You could place particles in
15	are back on the record. The time	15	the vagina. You can give a
16	is 11:42 a.m.	16	patient oxytocin. You can do
17	BY MS. GARBER:	17	some you know, different
18	Q. Doctor, you state at Page 22	18	different than the majority of the
19	of your report that plaintiffs' expert	19	use of these products.
20	gynecologic oncologist conducted a	20	And so I I came to the
21	selective review of the study on biologic	21	conclusion that their their
22	mechanism.	22	approach was conclusion driven,
23	What studies do you	23	just because it seemed to me, if
24	contend	24	you've never seen a study that
	Page 127		Page 129
1	A. Could you could you		
	11. Coma you	1	shows it's possible, and then you
2	point I'm not sure where you're	1 2	just say well, the the studies
2			
	point I'm not sure where you're	2	just say well, the the studies
3	point I'm not sure where you're reading from.	2 3	just say well, the the studies that I did say that it doesn't
3 4 5 6	point I'm not sure where you're reading from. Q. From Page 22 of your expert report. A. Right, where I'm just	2 3 4 5 6	just say well, the the studies that I did say that it doesn't happen in an animal model, I don't I'm not persuaded by that.
3 4 5 6 7	point I'm not sure where you're reading from. Q. From Page 22 of your expert report. A. Right, where I'm just looking where on the page it says this.	2 3 4 5 6 7	just say well, the the studies that I did say that it doesn't happen in an animal model, I don't I'm not persuaded by that. BY MS. GARBER:
3 4 5 6	point I'm not sure where you're reading from. Q. From Page 22 of your expert report. A. Right, where I'm just	2 3 4 5 6 7 8	just say well, the the studies that I did say that it doesn't happen in an animal model, I don't I'm not persuaded by that.
3 4 5 6 7 8 9	point I'm not sure where you're reading from. Q. From Page 22 of your expert report. A. Right, where I'm just looking where on the page it says this. Q. At the first full paragraph. MS. CURRY: I'm not seeing	2 3 4 5 6 7 8 9	just say well, the the studies that I did say that it doesn't happen in an animal model, I don't I'm not persuaded by that. BY MS. GARBER: Q. What animal studies did you review with regard to migration?
3 4 5 6 7 8 9	point I'm not sure where you're reading from. Q. From Page 22 of your expert report. A. Right, where I'm just looking where on the page it says this. Q. At the first full paragraph. MS. CURRY: I'm not seeing it there either.	2 3 4 5 6 7 8 9	just say well, the the studies that I did say that it doesn't happen in an animal model, I don't I'm not persuaded by that. BY MS. GARBER: Q. What animal studies did you review with regard to migration? A. Yeah, I'd have to look back
3 4 5 6 7 8 9 10	point I'm not sure where you're reading from. Q. From Page 22 of your expert report. A. Right, where I'm just looking where on the page it says this. Q. At the first full paragraph. MS. CURRY: I'm not seeing it there either. THE WITNESS: I see where	2 3 4 5 6 7 8 9 10	just say well, the the studies that I did say that it doesn't happen in an animal model, I don't I'm not persuaded by that. BY MS. GARBER: Q. What animal studies did you review with regard to migration? A. Yeah, I'd have to look back and see was whether it was the the
3 4 5 6 7 8 9 10 11	point I'm not sure where you're reading from. Q. From Page 22 of your expert report. A. Right, where I'm just looking where on the page it says this. Q. At the first full paragraph. MS. CURRY: I'm not seeing it there either.	2 3 4 5 6 7 8 9 10 11	just say well, the the studies that I did say that it doesn't happen in an animal model, I don't I'm not persuaded by that. BY MS. GARBER: Q. What animal studies did you review with regard to migration? A. Yeah, I'd have to look back and see was whether it was the the rat model or the pig model. But there
3 4 5 6 7 8 9 10 11 12 13	point I'm not sure where you're reading from. Q. From Page 22 of your expert report. A. Right, where I'm just looking where on the page it says this. Q. At the first full paragraph. MS. CURRY: I'm not seeing it there either. THE WITNESS: I see where you're saying. You're saying, "Such	2 3 4 5 6 7 8 9 10	just say well, the the studies that I did say that it doesn't happen in an animal model, I don't I'm not persuaded by that. BY MS. GARBER: Q. What animal studies did you review with regard to migration? A. Yeah, I'd have to look back and see was whether it was the the
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	Page 130		Page 132
1	look at would be the study where someone	1	THE WITNESS: I'm not sure
1 2 3 4	dusted the human perineum with talc and	2	what you mean by comprehensive. I
3	showed that it was able to reach the	3	will tell you that the studies
4	ovary, and that doesn't exist. So that	4	that I do cite, for example a
5	would be the best thing to look at.	5	study like Heller, where there's
6	The studies that I mentioned	6	no correlation between the
7	to you, which I can go back to the talc	7	presence of talc in someone's
8	monograph and find, I don't remember if	8	ovaries and the reported use of
9	it was Sprague rats or if it was actually	9	talc, which I'm sure the
10	pigs or guinea pigs. There was a couple	10	plaintiffs' experts have seen,
11	of animal models where they were not able	11	should give them reason to pause
12	to show migration from the vagina, not	12	if they've never been able to show
13	much less the perineum.	13	it in a human model that it can
14	Q. It's your testimony that	14	happen.
15	plaintiffs' experts didn't look at a	15	And then you see studies
16	human study that dusted the perineum with	16	like that that say there's no
17	talc and it was shown to migrate to the	17	correlation between reported
18	ovaries, and you're critical of that even	18	history and the presence of talc
19	though such a study does not exist?	19	in the ovaries, that it should
20	MS. CURRY: Object to the	20	make you it should make you
21	form.	21	wonder.
22	THE WITNESS: You know, I	22	And I wouldn't be so
23	guess what you can be critical of,	23	dismissive of the studies that are
24	and I'd have to admit to that is,	24	to the contrary. I mean, they're
	una ra nave te admir te that it,		to the contary. Timedi, they is
	Dama 121		
	Page 131		Page 133
1	I'm saying such selective	1	Page 133 mentioning, "Reviewed the small
2		1 2	
	I'm saying such selective	1	mentioning, "Reviewed the small
2	I'm saying such selective review and I guess that's not what's being selective here. What's being selective is what you	2 3 4	mentioning, "Reviewed the small body of literature suggesting
2 3 4 5	I'm saying such selective review and I guess that's not what's being selective here. What's being selective is what you consider persuasive or not.	2 3 4 5	mentioning, "Reviewed the small body of literature suggesting migration of particles does not occur." So they're admitting that there is a body of literature that
2 3 4	I'm saying such selective review and I guess that's not what's being selective here. What's being selective is what you consider persuasive or not. It's not the review. It's	2 3 4 5 6	mentioning, "Reviewed the small body of literature suggesting migration of particles does not occur." So they're admitting that there is a body of literature that shows that it doesn't occur.
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34 (Pages 130 to 133)

	Page 134		Page 136
1	small. And I'm saying that there is no	1	you're going to develop a model to say
2	body of literature showing that perineal	2	Q. Doctor, sorry, I'm just
3	dusting of talc gets to the ovaries.	3	going to cut you off.
4	So you're comparing small to	4	A. Sure.
5	none, but you find the small	5	Q. My question was did you
6	non-persuasive.	6	it was just a really simple question.
7	Q. Doctor, if you can turn to	7	Did you look at any other human studies.
8	Page 16 of your expert report. There is	8	And the answer was yes?
9	a section on Page 16 titled "Migration of	9	A. Yes.
10	Talc Particles," correct?	10	Q. And then you mentioned one
11	A. Yes.	11	study; is that right? Were there any
12	Q. And you mention the Wehner	12	other studies?
13	paper, correct?	13	MS. CURRY: Object to the
14	A. Yes.	14	form.
15	Q. And do you know what was	15	THE WITNESS: I would have
16	that an animal study or human study?	16	to go back and remind myself of
17	A. That was animals.	17	how many, but it was more than
18	Q. All right. And then you	18	one.
19	mentioned the Heller study. Was that a	19	BY MS. GARBER:
20	tale migration study? In other words,	20	Q. Do you have any other
21	was tale placed at the genitals and	21	criticisms of plaintiffs' gynecologic
22	looked to see if it travels?	22	oncologists and the claim that they
23	A. No.	23	selectively reviewed studies? Any other
24	Q. Okay. And then you also	24	•
2.1	Q. Okay. And then you also	24	criticisms as to the body of literature?
	Page 135		Page 137
1	mentioned the Cramer study, right, the	1	A. I do.
2	2007 study?	2	MS. CURRY: Object to the
3	A. Yes.	3	form.
4	2007, you said?	4	THE WITNESS: I do. I
5	Q. Yes.	5	looked at the literature in
6	A. Oh, yes, yes.	6	totality. So if you just restrict
7	Q. And then if we turn the page	7	to the epidemiologic data, I
8	over, you also mention the Gertig study;	8	looked at the case-control
9	is that right?	9	studies. I spent a fair amount of
10	A. Yes.	10	time going through those, looking
11	Q. And then you mention the	11	for consistency and things like
12	Terry study?	12	that.
13	A. Right.	13	And then I looked at the
14	Q. Doctor, did you look at any	14	cohort studies, which as you see
15	of the human studies where particulate	15	in my report I explain why they
16	was placed at the genitals or in the	16	may they are generally
17	genitals and the ability to migrate?	17	considered to be less prone to
18	A. What particular particulate	18	bias.
19	are you talking about?	19	And then I read
		20	Dr. Clarke-Pearson's report where
20	Q. Any particulate.		
21	A. Yes. And I saw in expert	21	he almost I don't even think he
21 22	A. Yes. And I saw in expert for example, in Dr. Birrer's report, I	21 22	he almost I don't even think he mentioned the cohort studies,
21 22 23	A. Yes. And I saw in expert for example, in Dr. Birrer's report, I believe he discusses a study of carbon.	21 22 23	he almost I don't even think he mentioned the cohort studies, which to me was an important thing
21 22	A. Yes. And I saw in expert for example, in Dr. Birrer's report, I	21 22	he almost I don't even think he mentioned the cohort studies,

35 (Pages 134 to 137)

	Page 138		Page 140
1	you really believe that talc	1	THE WITNESS: That's
2	causes ovarian cancer.	1 2 3	correct.
3	I did as I mention, I	3	BY MS. GARBER:
4	think they take as a given that	4	Q. And those papers relied on
5	talc can migrate. And they're not	5	plaintiffs' experts in support of their
6	alone in this. I don't I don't	6	biologically plausible mechanism of
7	think that they're alone in doing	7	carcinogenicity, true?
8	that. I read a number of papers	8	A. Yes, that's true.
9	that in the introduction will make	9	Q. And in Page 23 of your
10	statements like, "We all know talc	10	report you state, "I understand that
11	can get to the ovaries," and then	11	there are a number of irregularities in
12	offer no citation for it.	12	Dr. Saed's work and his lab notes."
13	And so I take issue with	13	What is your source of that
14	that as well.	14	statement?
15	BY MS. GARBER:	15	A. Dr. Birrer's expert report.
16	Q. Doctor, I didn't ask you for	16	Q. When did you read
17	a full list of your opinions.	17	Dr. Birrer's expert report?
18	A. I thought you did.	18	A. I'm trying to think.
19	Q. I asked you	19	Probably about maybe two weeks ago.
20	A. You asked me what areas do I	20	Can you tell me what you're
21	disagree with them.	21	referring to though?
22	Q. Okay. And you mentioned	22	Your your statement. You
23	MS. CURRY: Please let him	23	said you I made a a referral to
24	finish his response. You've cut	24	something about Dr. Saed, but you didn't
	Page 139		Page 141
1	him off twice now.	1	tell me where to find it.
2	MS. GARBER: That's because	2	Q. I just asked you generally,
3	he's talking in very large	3	Doctor.
4	paragraphs, and we're never going	4	You you made mention
5	to get anywhere if I don't.	5	that that his work and lab notes
6	MS. CURRY: If you ask these	6	A. I'm just asking where you're
7	broad, open-ended questions, he's	7	reading from, if you can
8	entitled to respond to it.	8	Q. At Page 23, Doctor.
9	MS. GARBER: All right.	9	A. 23. Thank you.
10	I'll ask a different question.	10	Q. So what's your source of
11	BY MS. GARBER:	11	that statement?
12	Q. Doctor, did you review the	12	A. Hold on one second.
13	Buz'Zard 2007, Shukla 2009 papers?	13	Q. If you don't know, we'll
14	A. Only with regard to the	14	move on.
15	expert reports.	15	MS. CURRY: Just give him a
16	Q. They're not on your	16	second to look at where you're
17	reference list, are they?	17	reading from.
18	A. No.	18	THE WITNESS: I just want to
19	Q. And you did not review the	19	get to yeah.
20	Saed 2019 prior to signing your expert	20	BY MS. GARBER:
21	report. We've already established that,	21	Q. It's at the top of 23.
22	right?	22	A. I don't remember exactly.
23 24	MS. CURRY: Object to the	23 24	Q. All right. Did you I
∠ 4	form.	44	I noted that his lab notebooks were not

36 (Pages 138 to 141)

	Page 142		Page 144
1	on his reference list. You didn't look	1	Q. Are you planning to provide
2	at those, did you?	2	any comment?
3	MS. CURRY: Object to the	3	A. What I reviewed was a draft.
4	form.	4	So I'm not sure what Health Canada is
5	THE WITNESS: No.	5	going to finally decide to publish. So
6	BY MS. GARBER:	6	no, I didn't I didn't
7	Q. You haven't looked at all of	7	Q. Do
8	his work relating to talc and mechanism	8	MS. GARBER: Motion to
9	of carcinogenicity, right?	9	strike as nonresponsive.
10	A. No.	10	BY MS. GARBER:
11	Q. And with regard to your	11	Q. Doctor, I asked you, are you
12	reference list, you haven't reviewed	12	planning to provide any comment to Health
13	Health Canada's draft screening	13	Canada?
14	assessment with regard to talc dated	14	A. I'm saying perhaps I would
15	December of 2018, correct?	15	if I saw a final product that I thought
16	MS. CURRY: Object to the	16	was really egregious, but I've only
17	form.	17	reviewed a draft and so I I can't say
18	THE WITNESS: I did.	18	whether I would or not.
19	BY MS. GARBER:	19	Q. Doctor, do you understand
20	Q. Sorry?	20	that Health Canada has asked for public
21	À. I did.	21	comment?
22	Q. You did review it?	22	A. I didn't no, I wasn't
23	A. It's one of Dr. Saenz's	23	aware of the process.
24	exhibits.	24	Q. Okay. Have you ever been
	Page 143		Dama 145
	rage 143		Page 145
1	Q. Okay. And it's not listed	1	asked to testify at any United States or
2	Q. Okay. And it's not listed on your reference list, correct?	2	asked to testify at any United States or state government proceedings with regard
2	Q. Okay. And it's not listed	l	asked to testify at any United States or state government proceedings with regard to talcum powder products?
2 3 4	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form.	2	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No.
2 3 4 5	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to	2 3 4 5	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting
2 3 4 5 6	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list	2 3 4 5 6	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in
2 3 4 5	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to	2 3 4 5 6 7	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting
2 3 4 5 6 7 8	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's	2 3 4 5 6 7 8	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in
2 3 4 5 6 7 8 9	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits.	2 3 4 5 6 7 8	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No.
2 3 4 5 6 7 8 9	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER:	2 3 4 5 6 7 8 9	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to?
2 3 4 5 6 7 8 9 10	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health	2 3 4 5 6 7 8 9 10 11	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No.
2 3 4 5 6 7 8 9 10 11 12	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report?	2 3 4 5 6 7 8 9 10 11 12	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a
2 3 4 5 6 7 8 9 10 11 12 13	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's	2 3 4 5 6 7 8 9 10 11 12 13	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have	2 3 4 5 6 7 8 9 10 11 12 13 14	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in response to the Health Canada DSAR?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have. Q. Yes?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in response to the Health Canada DSAR? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have. Q. Yes? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in response to the Health Canada DSAR? A. No. Q. Have you been asked to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have. Q. Yes? A. Yes. Q. When did you read that?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in response to the Health Canada DSAR? A. No. Q. Have you been asked to provide any comment to Health Canada?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have. Q. Yes? A. Yes. Q. When did you read that? A. Same day I read the Health
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. And it's not listed on your reference list, correct? MS. CURRY: Object to the form. THE WITNESS: I'd have to look through the reference list no, it was something that I reviewed as part of Dr. Saenz's exhibits. BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in response to the Health Canada DSAR? A. No. Q. Have you been asked to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	asked to testify at any United States or state government proceedings with regard to talcum powder products? A. No. Q. And you are not conducting any research, experimental research in any capacity concerning talcum powder products and ovarian cancer, right? A. No. Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have. Q. Yes? A. Yes. Q. When did you read that?

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	Page 146		Page 148
1	Q. And that was not on any of	1	A. No, I have not.
2	your the Taher 2018 meta-analysis was	2	Q. And your expert report
3	not listed on any of your reference	3	contains Table 1, correct?
4	lists, correct?	4	A. Yes.
5	A. It is	5	Q. And what is the nature of
6	MS. CURRY: Object to the	6	Table 1?
7	form.	7	A. Table 1
8			MS. CURRY: Table 1 in the
	THE WITNESS: It's also part	8	
9	of the exhibits for Dr. Saenz.	9	copy that you marked is actually
10	BY MS. GARBER:	10	cut off.
11	Q. Could you go back to	11	Do you have a full version
12	Exhibit 6, please.	12	of it?
13	Doctor, you understand that	13	MS. GARBER: I do. It's
14	your reference lists provide me an	14	it's buried. But I'm going to
15	opportunity to know what literature you	15	mark it, so
16	have reviewed and relied on attendant to	16	BY MS. GARBER:
17	your expert opinions, correct?	17	Q. Are you able to tell me what
18	A. That's correct.	18	Table 1 contains?
19	Q. And if you look at Item 5 of	19	A. Yes.
20	Exhibit 6 which is your supplemental	20	Q. And what it is?
21	materials?	21	A. Table 1 is a list of
22	A. Yes.	22	case-control studies that I reviewed in
23	Q. Could you read Number 5 for	23	regard to this matter.
24	me, please?	24	Q. Why did you create this
	me, preuse i		
	Dama 147		
	Page 147		Page 149
1	A. It says, "Expert report of	1	Page 149 list?
1 2	A. It says, "Expert report of	1 2	
		1	list? A. One, I wanted to show that I
2	A. It says, "Expert report of Cheryl Saenz, M.D., February 25, 2019."	2	list? A. One, I wanted to show that I performed a comprehensive review. But I
2	A. It says, "Expert report of Cheryl Saenz, M.D., February 25, 2019." Q. It doesn't say exhibits, does it?	2	list? A. One, I wanted to show that I performed a comprehensive review. But I guess largely what I saw mentions over
2 3 4 5	A. It says, "Expert report of Cheryl Saenz, M.D., February 25, 2019." Q. It doesn't say exhibits, does it? MS. CURRY: Object to the	2 3 4	list? A. One, I wanted to show that I performed a comprehensive review. But I guess largely what I saw mentions over and over again by plaintiffs' experts and
2 3 4	A. It says, "Expert report of Cheryl Saenz, M.D., February 25, 2019." Q. It doesn't say exhibits, does it? MS. CURRY: Object to the form. Number 3 discusses the	2 3 4 5	list? A. One, I wanted to show that I performed a comprehensive review. But I guess largely what I saw mentions over and over again by plaintiffs' experts and sometimes in other papers, the statement
2 3 4 5 6 7	A. It says, "Expert report of Cheryl Saenz, M.D., February 25, 2019." Q. It doesn't say exhibits, does it? MS. CURRY: Object to the form. Number 3 discusses the deposition.	2 3 4 5 6 7	A. One, I wanted to show that I performed a comprehensive review. But I guess largely what I saw mentions over and over again by plaintiffs' experts and sometimes in other papers, the statement that the epidemiologic data consistently
2 3 4 5 6 7 8	A. It says, "Expert report of Cheryl Saenz, M.D., February 25, 2019." Q. It doesn't say exhibits, does it? MS. CURRY: Object to the form. Number 3 discusses the deposition. BY MS. GARBER:	2 3 4 5 6 7 8	list? A. One, I wanted to show that I performed a comprehensive review. But I guess largely what I saw mentions over and over again by plaintiffs' experts and sometimes in other papers, the statement that the epidemiologic data consistently shows an increased risk of of ovarian
2 3 4 5 6 7 8 9	A. It says, "Expert report of Cheryl Saenz, M.D., February 25, 2019." Q. It doesn't say exhibits, does it? MS. CURRY: Object to the form. Number 3 discusses the deposition. BY MS. GARBER: Q. Is that what it says,	2 3 4 5 6 7 8 9	list? A. One, I wanted to show that I performed a comprehensive review. But I guess largely what I saw mentions over and over again by plaintiffs' experts and sometimes in other papers, the statement that the epidemiologic data consistently shows an increased risk of of ovarian cancer with talc exposure. And I think
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. It says, "Expert report of Cheryl Saenz, M.D., February 25, 2019." Q. It doesn't say exhibits, does it? MS. CURRY: Object to the form. Number 3 discusses the deposition. BY MS. GARBER: Q. Is that what it says, Doctor? Does it say exhibits there, sir? MS. CURRY: Object to the form. THE WITNESS: It clearly doesn't say exhibits. Number 3 is where it says exhibits, so I'm not sure why you're having me read all of 5, when it clearly says on Number 3, "Deposition of Cheryl Saenz, M.D., and exhibits, March 13, 2019." BY MS. GARBER: Q. Okay. Doctor, have you spoken with any of the Taher study	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. One, I wanted to show that I performed a comprehensive review. But I guess largely what I saw mentions over and over again by plaintiffs' experts and sometimes in other papers, the statement that the epidemiologic data consistently shows an increased risk of of ovarian cancer with talc exposure. And I think most people already know that that's only with case-control studies and none of the cohort studies if you include Gates and then update to Gertig. So then I wanted to look at the case-control studies. And to see could somebody use that term consistently, maybe loosely, and what I consider consistent and they consider consistent different. And so I looked through this list of case-control studies. I looked at those that showed a positive association and had a 95 percent
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. It says, "Expert report of Cheryl Saenz, M.D., February 25, 2019." Q. It doesn't say exhibits, does it? MS. CURRY: Object to the form. Number 3 discusses the deposition. BY MS. GARBER: Q. Is that what it says, Doctor? Does it say exhibits there, sir? MS. CURRY: Object to the form. THE WITNESS: It clearly doesn't say exhibits. Number 3 is where it says exhibits, so I'm not sure why you're having me read all of 5, when it clearly says on Number 3, "Deposition of Cheryl Saenz, M.D., and exhibits, March 13, 2019." BY MS. GARBER: Q. Okay. Doctor, have you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. One, I wanted to show that I performed a comprehensive review. But I guess largely what I saw mentions over and over again by plaintiffs' experts and sometimes in other papers, the statement that the epidemiologic data consistently shows an increased risk of of ovarian cancer with talc exposure. And I think most people already know that that's only with case-control studies and none of the cohort studies if you include Gates and then update to Gertig. So then I wanted to look at the case-control studies. And to see could somebody use that term consistently, maybe loosely, and what I consider consistent and they consider consistent different. And so I looked through this list of case-control studies. I looked at those that showed a positive

38 (Pages 146 to 149)

	Page 150		Page 152
1	was statistically significant. And I	1	its levels were higher in women who
2	wanted to see what percentage of them,	2	specifically had clear cell carcinoma.
3	that were not duplicates of the same	3	Q. Do any of the publications
4	dataset actually showed this association.	4	that do not appear on your reference list
5	And so my my review of	5	concern any of the issues that you deem
6	this list of case-control studies was	6	relevant in this case?
7	that I don't it came out to be	7	MS. CURRY: Object to the
8	about 50/50 with a positive association.	8	form.
9	Because I wanted to find out, would	9	THE WITNESS: Please repeat
10	would anybody call, you know, a 50/50	10	that.
11	chance consistent.	11	BY MS. GARBER:
12	Q. So you created Table 1 to	12	Q. Do any of the publications
13	show or to support your claim that the	13	that do not appear on your CV,
14	case-control studies were inconsistent	14	bibliography, do any are any of those
15	based on statistical significance.	15	relevant as you deem them to the issues
16	Is that fair, Doctor?	16	in this case?
17	MS. CURRY: Object to the	17	A. I just wanted to clarify.
18	form.	18	You're asking if any of the papers that
19	THE WITNESS: That's fair.	19	I'm a co-author or author on relevant to
20	BY MS. GARBER:	20	
21		21	this topic?
22	Q. Okay. Exhibit A at the back of your expert report is your CV, right?	22	Q. That do not appear on your CV?
23	A. Yes.	23	
24		24	A. That do not appear on my CV?
24	Q. When did you last update it?	24	Q. Yes. The ones that you say
	Page 151		Page 153
1			
	A. I believe this is the most	1	that are not published yet.
2	A. I believe this is the most recent copy. Let's see.	1 2	that are not published yet. A. Oh, no.
2	recent copy. Let's see. Let's see. This last paper is from January 2019, probably like	2 3 4	A. Oh, no.
2 3	recent copy. Let's see. Let's see. This last paper is from January 2019, probably like February or maybe early March.	2 3 4 5	A. Oh, no.Q. No, they do not concernA. No, they do not concern talc and ovarian cancer.
2 3 4	recent copy. Let's see. Let's see. This last paper is from January 2019, probably like February or maybe early March. Q. Do you need to make any	2 3 4 5 6	A. Oh, no.Q. No, they do not concernA. No, they do not concern talc
2 3 4 5 6 7	recent copy. Let's see. Let's see. This last paper is from January 2019, probably like February or maybe early March. Q. Do you need to make any amendments to make it accurate today?	2 3 4 5 6 7	 A. Oh, no. Q. No, they do not concern A. No, they do not concern talc and ovarian cancer. Q. Do you consider yourself a research cancer biologist?
2 3 4 5 6 7 8	recent copy. Let's see. Let's see. This last paper is from January 2019, probably like February or maybe early March. Q. Do you need to make any amendments to make it accurate today? A. I have a few more accepted	2 3 4 5 6 7 8	 A. Oh, no. Q. No, they do not concern A. No, they do not concern talc and ovarian cancer. Q. Do you consider yourself a research cancer biologist? MS. CURRY: Object to the
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	Page 154		Page 156
1	work, no.	1	their opinions were based on informed
2	Q. All right. And you don't	2	scientific medical judgment?
2 3 4 5	have any degrees in epidemiology, right?	3	MS. CURRY: Object to the
4	A. No.	4	form.
	Q. Did you review any internal	5	THE WITNESS: No.
6	documents of defendants in this case that	6	BY MS. GARBER:
7	were produced attendant to this	7	Q. You disagree with that?
8	litigation?	8	A. No.
9	A. No, I have not.	9	Q. Pardon?
10	Q. And do you understand that	10	A. I disagree with it.
11	United States Senate seeking internal	11	Q. Which experts and I don't
12	company documents relevant to their	12	need to know why. Which experts do you
13	investigation as to whether Johnson &	13	think of uninformed scientific opinions?
14	Johnson has misrepresented the truth	14	MS. CURRY: Object to the
15	about asbestos content in their talcum	15	form.
16	powder products?	16	THE WITNESS: I would say
17	A. I am aware.	17	Dr. Clarke-Pearson, Dr. Judith
18	Q. You understand that the	18	Wolf, Ellen Blair Smith.
19	public, which includes scientists, are	19	BY MS. GARBER:
20	not normally allowed to review internal	20	Q. Any others?
21	company documents because manufacturers	21	A. No, I would restrict it to
22	like Johnson & Johnson mark them	22	that.
23	confidential and disclosure can result in	23	Q. Okay. And your criticisms
24	violation of a protective order? Do you	24	of those particular doctors as referenced
			1
	Page 155		Page 157
			rage 137
1	understand that?	1	in your expert report, does that consist
2		2	in your expert report, does that consist of strike that.
2 3	understand that? MS. CURRY: Object to the form.	2 3	in your expert report, does that consist of strike that. The opinions with regard to
2 3 4	understand that? MS. CURRY: Object to the form. THE WITNESS: No, I	2 3 4	in your expert report, does that consist of strike that. The opinions with regard to plaintiffs' experts, Dr. Clarke-Pearson,
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2 3 4 5 6 7 8 9	understand that? MS. CURRY: Object to the form. THE WITNESS: No, I BY MS. GARBER: Q. Do you understand how that works? A. No, I didn't know that. Q. You do?	2 3 4 5 6 7 8	in your expert report, does that consist of strike that. The opinions with regard to plaintiffs' experts, Dr. Clarke-Pearson, Wolf, and Blair Smith, your criticisms of those experts are contained within your expert report; is that fair? A. That's fair. Q. Do you agree that experts
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	understand that? MS. CURRY: Object to the form. THE WITNESS: No, I BY MS. GARBER: Q. Do you understand how that works? A. No, I didn't know that. Q. You do? A. I don't know that. Q. Okay. Do I now have a full list of the documents that you considered in formulating your opinions as referenced in your expert report and supplemental materials? A. Yes. Q. Do you understand, Doctor, that I'm entitled to know the literature that you considered and the foundation for your opinions? A. Yes. Q. And while you don't agree	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	in your expert report, does that consist of strike that. The opinions with regard to plaintiffs' experts, Dr. Clarke-Pearson, Wolf, and Blair Smith, your criticisms of those experts are contained within your expert report; is that fair? A. That's fair. Q. Do you agree that experts must use scientific judgment when assessing the literature for causality? A. Yes, I do. Q. And in assessing the literature, one person's scientific judgment? MS. CURRY: Object to the form. THE WITNESS: I believe scientific judgment has a role, but I believe that there are things that are right and wrong as

40 (Pages 154 to 157)

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	Page 158		Page 160
1	wrong to say that something is	1	that informs the reader of the
2	consistently shown to be	2	methodology that you employed to render
3	associated with something if it's	2 3 4 5 6 7 8	your opinions.
4	not consistently shown.	4	A. I would have to point to my
5	And and I think for	5	description of the Bradford Hill
6	statements like that, you can rely	6	criteria.
7	on what the general population	7	Q. Where does that appear?
8	would consider consistency, or	8	A. I'll find it for you.
9	just any reasonable person. So if	9	Page 19.
10	someone says something is a	10	Q. Doctor, is that a
11	hallmark of a disease, and there's	11	methodology section? I asked you
12	no good evidence that it is even a	12	specifically if you could point me to the
13	part of the disease, then, you	13	methodology section.
14	know, that's not a judgment call	14	A. No. That does that is
15	at that point. That's the	15	not a methodology section.
16	difference between a misstatement	16	Q. And, in fact, you don't have
17	and a it's just a misstatement.	17	a methodology section in your report, do
18	BY MS. GARBER:	18	you?
19	Q. We will get to the issue of	19	A. I don't have a
20	consistency, Doctor.	20	MS. CURRY: Object to the
21	In addressing or in	21	form.
22	assessing strike that.	22	THE WITNESS: I don't have a
23	Do you agree that experts	23	specific section labeled
24	can reasonably weigh factors differently?	24	methodology, no.
	can reasonably weigh factors differently.		methodology, no.
	Page 159		Page 161
1	MS. CURRY: Object to the	1	BY MS. GARBER:
2	form.	2	Q. And, in fact, in the four
3			
	THE WITNESS: What I was	3	corners of your report you do not state
4	THE WITNESS: What I was trying to get at, and I was hoping	3 4	
4 5			corners of your report you do not state
	trying to get at, and I was hoping	4	corners of your report you do not state anywhere the methodology that you employed in coming to your opinions. Is that also a true statement?
5	trying to get at, and I was hoping that we would be able to cover	4 5	corners of your report you do not state anywhere the methodology that you employed in coming to your opinions. Is
5 6	trying to get at, and I was hoping that we would be able to cover this quickly, but probably not.	4 5 6	corners of your report you do not state anywhere the methodology that you employed in coming to your opinions. Is that also a true statement?
5 6 7	trying to get at, and I was hoping that we would be able to cover this quickly, but probably not. That	4 5 6 7	corners of your report you do not state anywhere the methodology that you employed in coming to your opinions. Is that also a true statement? MS. CURRY: Object to the
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5 6 7 8 9 10 11	trying to get at, and I was hoping that we would be able to cover this quickly, but probably not. That BY MS. GARBER: Q. Doctor, just yes or no. And	4 5 6 7 8 9 10	corners of your report you do not state anywhere the methodology that you employed in coming to your opinions. Is that also a true statement? MS. CURRY: Object to the form. THE WITNESS: Throughout my report, within the four corners one could see the methodology I'm
5 6 7 8 9	trying to get at, and I was hoping that we would be able to cover this quickly, but probably not. That BY MS. GARBER: Q. Doctor, just yes or no. And you're	4 5 6 7 8 9 10 11	corners of your report you do not state anywhere the methodology that you employed in coming to your opinions. Is that also a true statement? MS. CURRY: Object to the form. THE WITNESS: Throughout my report, within the four corners one could see the methodology I'm using. And then I go onto explain
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	trying to get at, and I was hoping that we would be able to cover this quickly, but probably not. That BY MS. GARBER: Q. Doctor, just yes or no. And you're A. I need no Q going to have an opportunity for your lawyer to ask you questions. A. But ma'am, if you ask a question MS. GARBER: Object to form. BY MS. GARBER: Q. I will withdraw the question. A. Okay.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	corners of your report you do not state anywhere the methodology that you employed in coming to your opinions. Is that also a true statement? MS. CURRY: Object to the form. THE WITNESS: Throughout my report, within the four corners one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER: Q. Doctor, you understand the methodology is important so that opinions can be replicated, right? When you're reviewing a study, there's a methods section, so that the evaluation can be replicated. You
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	trying to get at, and I was hoping that we would be able to cover this quickly, but probably not. That BY MS. GARBER: Q. Doctor, just yes or no. And you're A. I need no Q going to have an opportunity for your lawyer to ask you questions. A. But ma'am, if you ask a question MS. GARBER: Object to form. BY MS. GARBER: Q. I will withdraw the question. A. Okay. Q. Doctor, with regard to	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	corners of your report you do not state anywhere the methodology that you employed in coming to your opinions. Is that also a true statement? MS. CURRY: Object to the form. THE WITNESS: Throughout my report, within the four corners one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER: Q. Doctor, you understand the methodology is important so that opinions can be replicated, right? When you're reviewing a study, there's a methods section, so that the evaluation can be replicated. You understand that, right?

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	Page 162		Page 164
1	form.	1	the studies that you're referring
2	BY MS. GARBER:	2	to, I did not specifically mention
3	Q. You don't have a methodology	3	those studies at the time that I
4	section in your report where	4	presented my opinion, because my
5	A. I do not.	5	view of the Bradford Hill criteria
6	Q. Thank you.	6	was that there's a reason why the
7	Doctor, if we could move	7	first one is strength of
8	onto your statements about plaintiffs'	8	association and the second is
9	criticism of not reviewing the totality	9	consistency. And that I felt that
10	of the literature.	10	my reasoning showing the
11	I want to ask some questions	11	inconsistencies there, that
12	of you.	12	it's it's an interesting
13	You did not review the	13	question to look at biological
14	totality of the literature relating to	14	plausibility and and but
15	biologic plausibility, because you did	15	when you have such weakness in the
16	not review the Shukla, Buz'Zard, Saed	16	epidemiologic data, I did not
17	references before rendering your expert	17	spend as much time going through
18	opinion in the case?	18	the biologic plausibility other
19	MS. CURRY: Object to the	19	than to the degree that I did,
20	form.	20	because I think and it's full
21	BY MS. GARBER:	21	of weaknesses there as well.
22	Q. In in this case. Do you	22	But no, my opinion, just
23	agree with that?	23	even based on the epidemiology
24	MS. CURRY: Object to the	24	is is that there isn't a
	J		is is that there is no a
	Page 163		D 165
	rage 103		Page 165
1	form.	1	consistent finding of an
2	form. THE WITNESS: I believe that	2	consistent finding of an association with talc use and
2 3	form. THE WITNESS: I believe that even though it's I didn't have	1	consistent finding of an
2 3 4	form. THE WITNESS: I believe that	2	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER:
2 3 4 5	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method	2 3 4 5	consistent finding of an association with talc use and ovarian cancer.
2 3 4 5 6	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method methodical way	2 3 4 5 6	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER: Q. Doctor, is it your testimony that if you look at the epidemiological
2 3 4 5 6 7	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method methodical way BY MS. GARBER:	2 3 4 5 6 7	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER: Q. Doctor, is it your testimony that if you look at the epidemiological literature and you find it weak, you
2 3 4 5 6 7 8	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method methodical way BY MS. GARBER: Q. Doctor, I didn't ask you	2 3 4 5 6 7 8	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER: Q. Doctor, is it your testimony that if you look at the epidemiological literature and you find it weak, you don't then need to go on and review the
2 3 4 5 6 7 8 9	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method methodical way BY MS. GARBER: Q. Doctor, I didn't ask you about your methodology.	2 3 4 5 6 7 8 9	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER: Q. Doctor, is it your testimony that if you look at the epidemiological literature and you find it weak, you don't then need to go on and review the biologic plausibility to render a
2 3 4 5 6 7 8 9	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method methodical way BY MS. GARBER: Q. Doctor, I didn't ask you about your methodology. A. If I if I can finish my	2 3 4 5 6 7 8 9	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER: Q. Doctor, is it your testimony that if you look at the epidemiological literature and you find it weak, you don't then need to go on and review the biologic plausibility to render a causation opinion?
2 3 4 5 6 7 8 9 10	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method methodical way BY MS. GARBER: Q. Doctor, I didn't ask you about your methodology. A. If I if I can finish my answer, please.	2 3 4 5 6 7 8 9 10	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER: Q. Doctor, is it your testimony that if you look at the epidemiological literature and you find it weak, you don't then need to go on and review the biologic plausibility to render a causation opinion? MS. CURRY: Object to the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method methodical way BY MS. GARBER: Q. Doctor, I didn't ask you about your methodology. A. If I if I can finish my answer, please. MS. CURRY: Please stop cutting him off. THE WITNESS: So MS. GARBER: Motion to	2 3 4 5 6 7 8 9 10 11 12 13 14 15	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER: Q. Doctor, is it your testimony that if you look at the epidemiological literature and you find it weak, you don't then need to go on and review the biologic plausibility to render a causation opinion? MS. CURRY: Object to the form. BY MS. GARBER: Q. Is that your is that your opinion?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method methodical way BY MS. GARBER: Q. Doctor, I didn't ask you about your methodology. A. If I if I can finish my answer, please. MS. CURRY: Please stop cutting him off. THE WITNESS: So MS. GARBER: Motion to strike. BY MS. GARBER:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER: Q. Doctor, is it your testimony that if you look at the epidemiological literature and you find it weak, you don't then need to go on and review the biologic plausibility to render a causation opinion? MS. CURRY: Object to the form. BY MS. GARBER: Q. Is that your is that your opinion? A. That is not my opinion. Q. Okay.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method methodical way BY MS. GARBER: Q. Doctor, I didn't ask you about your methodology. A. If I if I can finish my answer, please. MS. CURRY: Please stop cutting him off. THE WITNESS: So MS. GARBER: Motion to strike. BY MS. GARBER: Q. My question was about Shukla, Buz'Zard and Saez MS. SHARKO: You have to let him finish his answer. You are not allowed to interrupt. Now be polite please.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER: Q. Doctor, is it your testimony that if you look at the epidemiological literature and you find it weak, you don't then need to go on and review the biologic plausibility to render a causation opinion? MS. CURRY: Object to the form. BY MS. GARBER: Q. Is that your is that your opinion? A. That is not my opinion. Q. Okay. A. And that's not what I'm saying. Q. So and, Doctor, you did not review studies that looked at the biologic plausibility for talc and ovarian cancer which included Shukla,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. THE WITNESS: I believe that even though it's I didn't have a methodology section, I did approach this in a method methodical way BY MS. GARBER: Q. Doctor, I didn't ask you about your methodology. A. If I if I can finish my answer, please. MS. CURRY: Please stop cutting him off. THE WITNESS: So MS. GARBER: Motion to strike. BY MS. GARBER: Q. My question was about Shukla, Buz'Zard and Saez MS. SHARKO: You have to let him finish his answer. You are not allowed to interrupt. Now be	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	consistent finding of an association with talc use and ovarian cancer. BY MS. GARBER: Q. Doctor, is it your testimony that if you look at the epidemiological literature and you find it weak, you don't then need to go on and review the biologic plausibility to render a causation opinion? MS. CURRY: Object to the form. BY MS. GARBER: Q. Is that your is that your opinion? A. That is not my opinion. Q. Okay. A. And that's not what I'm saying. Q. So and, Doctor, you did not review studies that looked at the biologic plausibility for talc and

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	Page 166		Page 168
1	report, correct?	1	She's asking him to respond to the
2	MS. CURRY: Object to the	2	question.
3	form.	3	And if Dr. Holcomb continues
4	THE WITNESS: I would argue	4	not to answer a question, it's an
5	that Buz'Zard is not	5	appropriate issue to take to
6	BY MS. GARBER:	6	Judge Pisano and that's what we're
7	Q. Doctor, yes or no, did you	7	going to do. So so
8	review those or not?	8	MR. MIZGALA: I want to
9	MS. CURRY: Object to the	9	insert here. Because you're
10	form.	10	not she's not just asking him
11	THE WITNESS: I don't	11	yes or no about the studies.
12	MS. CURRY: Please let him	12	She's characterizing the studies
13	finish his response.	13	in a specific manner and he
14	THE WITNESS: You're	14	disagrees with that. I think he
15	you're looking for yes or no	15	should be able to explain that.
16	simple answers and you keep	16	THE WITNESS: That's exactly
17	BY MS. GARBER:	17	my feeling about it. It's, the
18	Q. I'm not looking for	18	question is did I review the
19	paragraphs, Doctor.	19	study
20	A but but you keep	20	BY MS. GARBER:
21	telling me that you're here to clarify my	21	Q. Doctor, there's no question
22	answers. But whenever I get started with	22	pending.
23	an answer you cut me off, which makes me	23	Did you
24	wonder are you really here to clarify my	24	MS. SHARKO: All right. So
	Page 167		
			rage 109
1	answers Because I can explain to you	1	
1 2	answers. Because I can explain to you. Buz'Zard	1 2	all prior questions are withdrawn.
2	Buz'Zard	2	all prior questions are withdrawn. MS. GARBER: No
2	Buz'Zard Q. I didn't ask you for an	2 3	all prior questions are withdrawn. MS. GARBER: No MS. SHARKO: She will now
2 3 4	Buz'Zard Q. I didn't ask you for an explanation. I asked you, were they	2 3 4	all prior questions are withdrawn. MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully
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43 (Pages 166 to 169)

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	Page 170		Page 172
1	MS. GARBER: I'm going to	1	MS. CURRY: Object to the
2	I'm going to ask a question.	2	form.
3	MS. SHARKO: Great. Thank	3	BY MS. GARBER:
4	you.	4	Q. Do you mention her
5	BY MS. GARBER:	5	reference his references with regard
6	Q. Doctor, you did not review	6	to causation?
7	Dr. Longo's testing of talcum powder	7	MS. CURRY: Object to the
8	products for the presence of asbestos,	8	form.
9	fibrous tale, heavy metals and the like,	9	THE WITNESS: No. I
10	correct?	10	
11		1	reference his study, not his
	A. That's correct.	11	discussion section.
12	Q. And you did not present or	12	BY MS. GARBER:
13	discuss the study design limitations with	13	Q. Okay. In your critique of
14	the cohort studies. Do you agree with	14	plaintiffs' experts' opinions, you do not
15	that, yes or no?	15	state the methodology used in coming to
16	MS. CURRY: Object to the	16	those opinions, correct?
17	form.	17	MS. CURRY: Object to the
18	THE WITNESS: Please repeat.	18	form.
19	BY MS. GARBER:	19	THE WITNESS: I do discuss
20	Q. Did you you did not	20	the methodology that I used. I
21	present and discuss the study design	21	don't have a methodology section
22	limitations of the cohort studies, yes or	22	that you discussed.
23	no?	23	BY MS. GARBER:
24	A. I'd have to read through the	24	Q. You don't discuss the
	Page 171		Page 173
1		1	
1	report again. I don't remember.	1	methodology that you employed in
1 2	report again. I don't remember. Q. You can't answer that	2	methodology that you employed in rendering critiques of plaintiffs'
1 2 3	report again. I don't remember. Q. You can't answer that question?	2 3	methodology that you employed in rendering critiques of plaintiffs' experts' opinions, correct?
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	report again. I don't remember. Q. You can't answer that question? A. I can't. Q. Okay. Is it true, Doctor that you did not provide a word of analysis in your report regarding the contrary data to your causation opinion specifically with regard to Penninkilampi, Health Canada or the Taher paper? MS. CURRY: Object to the form. BY MS. GARBER: Q. Is that true? A. Please repeat one more time. Q. Your report does not provide a word of analysis regarding the contrary data to your causation opinion, specifically the Penninkilampi, Health Canada or Taher analysis of causation,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	methodology that you employed in rendering critiques of plaintiffs' experts' opinions, correct? MS. CURRY: Object to the form. THE WITNESS: I just discuss and describe my critiques, yes. BY MS. GARBER: Q. Wouldn't you agree, Doctor, that there's medical consensus that the female genital tract is an open system to facilitate the passage of menses and promote retrograde movement of sperm? MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Let's talk about your opinions and be sure that I understand what they are. These should be yes or no

	Page 174		Page 176
1	biologically plausible mechanism whereby	1	BY MS. GARBER:
2	talcum powder products can migrate from a	2	Q. Is your opinion limited to
3	woman's genitals to her ovaries?	3	there's no credible evidence
4	MS. CURRY: Object to the	4	MS. CURRY: Object to the
5	form.	5	form.
6	THE WITNESS: Is it my	6	BY MS. GARBER:
7	opinion that it does not provide?	7	Q that tale is associated
8	BY MS. GARBER:	8	with ovarian cancer?
9	Q. Correct.	9	MS. CURRY: Object to the
10	A. The answer would be yes.	10	form.
11	Q. Is it your opinion that the	11	THE WITNESS: This is going
12	literature does not provide a	12	to be tough for yes or no. I
13	biologically plausible mechanism whereby	13	can't answer that with a yes or
14	talcum powder products can induce chronic	14	no.
15	inflammation, resulting in ovarian	15	BY MS. GARBER:
16	cancer?	16	Q. Okay. As a gynecologic
17	A. I believe that it proves	17	oncologist, you're a member of the
18	that it can cause chronic inflammation.	18	Society For Gynecologic Oncology, right?
19	I don't believe that it's been proven	19	A. Correct.
20	that that causes ovarian cancer.	20	Q. And you've served as a
21	Q. Is it your opinion that	21	reviewer for the publications submitted
22	talcum powder products do not increase	22	to the Journal of Gynecologic Oncology,
23	the risk of developing ovarian cancer?	23	right?
24	A. Yes.	24	A. Correct.
21	A. 165.	24	A. Concct.
	Page 175		Page 177
1	Q. And if talcum powder	1	Q. And I assume that you
2	products contain asbestos, does that	2	1, 11,, 41,,,
2	products contains use obtes, as as that	4	believe the journal the journal is a
3	opinion change?	3	reliable source for study data generally?
3 4			
	opinion change?	3	reliable source for study data generally?
4	opinion change? A. No.	3 4	reliable source for study data generally? MS. CURRY: Object to the
4 5	opinion change? A. No. Q. Is it your opinion that	3 4 5	reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your definition of reliable?
4 5 6	A. No. Q. Is it your opinion that talcum powder products do not cause	3 4 5 6	reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your
4 5 6 7	opinion change? A. No. Q. Is it your opinion that talcum powder products do not cause ovarian cancer? A. I don't have an opinion. I'm sorry. Talcum powder is did you	3 4 5 6 7	reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your definition of reliable? BY MS. GARBER: Q. What do you think it means?
4 5 6 7 8 9	A. No. Q. Is it your opinion that talcum powder products do not cause ovarian cancer? A. I don't have an opinion. I'm sorry. Talcum powder is did you ask the same question twice?	3 4 5 6 7 8	reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your definition of reliable? BY MS. GARBER: Q. What do you think it means? A. I don't use that term
4 5 6 7 8 9 10	opinion change? A. No. Q. Is it your opinion that talcum powder products do not cause ovarian cancer? A. I don't have an opinion. I'm sorry. Talcum powder is did you	3 4 5 6 7 8 9 10	reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your definition of reliable? BY MS. GARBER: Q. What do you think it means? A. I don't use that term reliable. So I wouldn't use that term.
4 5 6 7 8 9 10 11	A. No. Q. Is it your opinion that talcum powder products do not cause ovarian cancer? A. I don't have an opinion. I'm sorry. Talcum powder is did you ask the same question twice?	3 4 5 6 7 8 9 10 11 12	reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your definition of reliable? BY MS. GARBER: Q. What do you think it means? A. I don't use that term
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4 5 6 7 8 9 10 11 12 13 14 15	A. No. Q. Is it your opinion that talcum powder products do not cause ovarian cancer? A. I don't have an opinion. I'm sorry. Talcum powder is did you ask the same question twice? Q. No. One was risk, one was cause. A. Oh. Q. Is it your opinion that talcum powder products do not cause	3 4 5 6 7 8 9 10 11 12 13	reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your definition of reliable? BY MS. GARBER: Q. What do you think it means? A. I don't use that term reliable. So I wouldn't use that term. Q. Do you read the journal? A. Yes, I do. Q. And the data that's contained therein generally, do you deem
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45 (Pages 174 to 177)

	Page 178		Page 180
1		1	
1	assumption that we hold in	1	Q. Okay. I'm going to show you
2	academic medicine. And, yes, I	2	a paper, Doctor. I don't believe it was
3	make that assumption for	3	cited in your expert report.
4	gynecologic oncology.	4	(Document marked for
5	There's no way for a	5	identification as Exhibit
6	reviewer or someone else to know	6	Holcomb-8.)
7	if someone is giving you false	7	BY MS. GARBER:
8	information. We assume it's all	8	Q. I'm going to mark as
9	valid and that they've not lied	9	Exhibit 8 oh, sorry.
10	about anything. So is that what	10	Doctor, this is a paper that
11	you mean by reliable?	11	is published in Gynecologic Oncology
12	BY MS. GARBER:	12	titled "Talc and Ovarian Cancer" by
13	Q. Have you had an experience	13	Steven Narod, the date of this study is
14	as a reviewer for Gynecologic Oncology	14	2016.
15	where authors submitted false data?	15	Have you read this paper
16	A. What I'm saying is we don't	16	before?
17	ask for raw data. I've never let me	17	A. I've seen it before, yes.
18	say I. I have never asked a submitting	18	Q. And when did you see it?
19	scientist for their raw data so that I	19	A. When it came out.
20	could look for irregularities. There is	20	Q. Okay. Did you review it as
21	a general understanding that you are	21	a reviewer for
22	trusting the person is giving you their	22	A. No.
23	findings, and you're reviewing them with	23	Q. Thank you. Let me let me
24	that understanding.	24	get that clear.
21	that understanding.		got that order
	Page 179		Page 181
1	Q. And based on the fact that	1	Did you review this paper
2	you're a reviewer for Gynecologic	2	prior to its publication attendant to
3	Oncology, do you tend to trust the data	3	your reviewer role from time to time with
4	presented in that journal?	4	Gynecologic Oncology?
5	MS. CURRY: Object to the	5	A. I did not review this paper
6	form.	6	before publication.
7	THE WITNESS: When you	7	
/		/	•
8	say unfortunately, when you say	8	Q. Okay. Let's look at some of the statements that are therein.
	say unfortunately, when you say "trust"	1	Q. Okay. Let's look at some of
8		8	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the
8 9	"trust"	8	Q. Okay. Let's look at some of the statements that are therein.
8 9 10	"trust" BY MS. GARBER:	8 9 10	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence
8 9 10 11	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the	8 9 10 11	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In
8 9 10 11 12	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the	8 9 10 11 12	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard
8 9 10 11 12 13 14	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming	8 9 10 11 12 13 14	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature"
8 9 10 11 12 13	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is	8 9 10 11 12 13 14 15	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm
8 9 10 11 12 13 14 15	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually	8 9 10 11 12 13 14	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2.
8 9 10 11 12 13 14 15 16 17	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not	8 9 10 11 12 13 14 15 16 17	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here
8 9 10 11 12 13 14 15 16 17	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I	8 9 10 11 12 13 14 15 16 17	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo.
8 9 10 11 12 13 14 15 16 17 18	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I trust those results just as much as any	8 9 10 11 12 13 14 15 16 17 18	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo. A. Yes.
8 9 10 11 12 13 14 15 16 17 18 19 20	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I trust those results just as much as any other journal.	8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo. A. Yes. Q. And see where I am. I'm at
8 9 10 11 12 13 14 15 16 17 18 19 20 21	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I trust those results just as much as any other journal. Whether I find the findings	8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo. A. Yes. Q. And see where I am. I'm at the bottom of 2, Page 2. Left-hand
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I trust those results just as much as any other journal. Whether I find the findings of every study valid, no. Just because	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo. A. Yes. Q. And see where I am. I'm at the bottom of 2, Page 2. Left-hand column.
8 9 10 11 12 13 14 15 16 17 18 19 20 21	"trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I trust those results just as much as any other journal. Whether I find the findings	8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo. A. Yes. Q. And see where I am. I'm at the bottom of 2, Page 2. Left-hand

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Kevin Holcomb, M.D.

Page 182 Page 184 1 Q. And -- and it says, "This 1 inconsistency. Some are positive and 2 article about talc and ovarian cancer 2 some are negative. 3 indicates in any case given the number of 3 So you read it correctly. I think it's a contradictory statement. 4 hazard ratios reported in the literature 4 5 between 1.1 and 1.4 in both case-control 5 He's saying they are consistent, and then 6 and cohort studies, it would be 6 says some are positive, some are 7 negative. That's not my definition of 7 disingenuous to state that there is no 8 evidence that talc is associated with 8 consistency. 9 9 Q. Doctor, this study author ovarian cancer." 10 is -- in a peer-reviewed paper said that 10 Did I read that correctly? 11 A. Yes, you read it correctly. 11 the data are consistent. Do you agree 12 Q. Yes or no, do you agree with 12 with that? 13 13 A. And then himself says some that statement? 14 A. It's actually a question you 14 are positive and some are negative. And already asked me and I agreed. 15 I'm asking, my definition of consistency 15 16 O. Let's look at some of the 16 means that they say the same thing. other statements in this paper and see if Q. I didn't ask you for what --17 17 why. I said did this study author in a 18 you agree with them. 18 19 If you go over to the first 19 peer-reviewed journal call the data page, Doctor, right-hand column. consistent, yes or no? 20 20 As to the issue of A. Yes. Yes. 21 21 consistency, it indicates, "The 2.2 Q. Thank you. You didn't 2.2 23 case-control studies to date are 23 present that in your expert report that there are peer-reviewed published authors 24 consistent. Given the small effect size 24 Page 183 Page 185 1 it is not surprising that some are 1 who say the data are consistent, did you? 2 positive, i.e., show a consistent" --2 MS. CURRY: Object to the 3 "show a significant increase in risk and 3 form. 4 some are negative, i.e., show a 4 THE WITNESS: I would like 5 nonconsistent increased risk." 5 to say that this is a -- this --6 there's a difference between a MS. CURRY: You keep saying 6 7 7 paper and a news -- a story in a consistent, but the word is 8 newspaper that a reporter wrote 8 significant. 9 9 MS. GARBER: Significant. and an op Ed. 10 BY MS. GARBER: 10 This is the medical version O. Let me start again. 11 of an op Ed. I'm not going to be 11 12 "The case-control studies to 12 citing op Eds. I'm going to be citing the literature that's based 13 date are consistent. Given the small 13 14 effect size it is not surprising that 14 on. some are positive, i.e., show a 15 15 And -- and you find the difficulty with what Dr. Narod is significant increased risk and some are 16 16 17 negative, i.e., show a nonsignificant 17 saying here in his own statement. increase in risk or no risk difference." 18 It's contradictory. He could --18 Did I read that correctly? 19 it would have made more sense if 19 20 A. Yes. 2.0 he said I can explain away the 21 Q. Do you disagree with that? 21 inconsistency. Because the effect A. It's interesting. He says 22 22 size is low you can expect to see the case-control studies are consistent, inconsistent data. But you can't 23 23 24 and then goes on to describe 24 say it's consistent, some are

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	Page 186		Page 188
1	positive, some are negative.	1	case-control data are unreliable because
2	BY MS. GARBER:	2	they are inconsistent based on some
3	Q. Doctor, let's let's turn	3	studies lack statistical significance?
4	to Table 1 of your expert report. And	4	MS. CURRY: Object to the
5	I'll mark that as Exhibit 9.	5	form.
6	(Document marked for	6	BY MS. GARBER:
7	identification as Exhibit	7	Q. Is that your opinion?
8	Holcomb-9.)	8	A. I'm no. Please repeat
9	BY MS. GARBER:	9	that again.
10	Q. And this appears in your	10	Q. Sure.
11	expert report, correct?	11	Is it your opinion that the
12	A. Correct.	12	case-control data are unreliable because
13	Q. And it is separated by	13	they are inconsistent based on some
14	I I've produced a color copy, right?	14	studies lack statistical significance?
15	A. Yes.	15	A. No. It's my opinion that
16	Q. Yeah. And it is there	16	it's not reliable because those studies
17	appears to be shaded studies that appear	17	that lack statistical significance are
18	to be in a in a blue color; is that	18	actually showing no increased risk, no
19	right?	19	no we we use statistical
20	A. Correct.	20	significance to say that that increased
21	Q. And then those that are not	21	risk was more than just by chance. So
22	shaded, right?	22	the lack of statistical significance is
23	A. That's correct.	23	what leads to the inconsistency.
24	Q. And then you have shaded	24	Q. Okay. So you believe that
	Page 187		Page 189
			5
1	the some of the studies in blue and	1	the case-control studies are inconsistent
2	why are those studies shaded in blue?	2	the case-control studies are inconsistent because some of the studies don't show
2	why are those studies shaded in blue? A. They are shaded in blue,	2 3	the case-control studies are inconsistent because some of the studies don't show statistical significance because the
2 3 4	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent	2 3 4	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that
2 3 4 5	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And	2 3 4 5	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair?
2 3 4 5 6	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant	2 3 4 5 6	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and
2 3 4 5	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And	2 3 4 5	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair?
2 3 4 5 6 7 8	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease.	2 3 4 5 6 7 8	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before
2 3 4 5 6 7 8	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table?	2 3 4 5 6 7 8 9	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what
2 3 4 5 6 7 8 9	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did.	2 3 4 5 6 7 8 9	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say
2 3 4 5 6 7 8 9 10	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer?	2 3 4 5 6 7 8 9 10	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant
2 3 4 5 6 7 8 9 10 11	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes.	2 3 4 5 6 7 8 9 10 11 12	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider
2 3 4 5 6 7 8 9 10 11 12 13	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data	2 3 4 5 6 7 8 9 10 11 12 13	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and
2 3 4 5 6 7 8 9 10 11 12 13 14	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded	2 3 4 5 6 7 8 9 10 11 12 13 14	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis.
2 3 4 5 6 7 8 9 10 11 12 13 14	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with regard to the case-control studies, the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of ovarian cancer associated with talc.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with regard to the case-control studies, the risk estimates range between 1.2 and 1.6,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of ovarian cancer associated with talc. So everything that's shaded
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with regard to the case-control studies, the risk estimates range between 1.2 and 1.6, suggesting a 20 to 60 percent increased	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of ovarian cancer associated with talc. So everything that's shaded in blue, those things are negative
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with regard to the case-control studies, the risk estimates range between 1.2 and 1.6, suggesting a 20 to 60 percent increased risk; is that right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of ovarian cancer associated with talc. So everything that's shaded in blue, those things are negative studies.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with regard to the case-control studies, the risk estimates range between 1.2 and 1.6, suggesting a 20 to 60 percent increased risk; is that right? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of ovarian cancer associated with talc. So everything that's shaded in blue, those things are negative studies. Q. Doctor, do you remember my
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	why are those studies shaded in blue? A. They are shaded in blue, because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with regard to the case-control studies, the risk estimates range between 1.2 and 1.6, suggesting a 20 to 60 percent increased risk; is that right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the case-control studies are inconsistent because some of the studies don't show statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of ovarian cancer associated with talc. So everything that's shaded in blue, those things are negative studies.

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1 A. I felt the need to clarify 2 why I think this is inconsistent. It's 3 not just it's because yes, they 4 don't they they 5 Q. Doctor, excuse me. 6 A. Yes. 7 Q. I'm going to interrupt you 8 there, because 9 MS. SHARKO: You can't do 10 that. 11 BY MS. GARBER: 12 Q. I you you understood 13 my question, yet you felt the need to 14 clarify. 15 That isn't what I've asked 16 you to do. I've asked you a very simple 17 question: What's the nature of this 18 Table I, and then you launched into what 19 the study authors do. 20 A. I I think I might be 21 mistaken about the purpose of this 22 MS. CURRY: MS. Garber 23 hold on. Can I just state an 24 objection on the record, please? 24 THE WITNESS: Okay. 25 MS. SHARKO: The question, 3 if he can't answer it without 4 clarifying, then he's entitled to 5 clarify the question. 3 if he can't answer it without 4 clarifying, then he's entitled to 5 clarify the question. 4 And the question was broader 7 than what you just stated. It 8 was, because it asked specifically 9 whether or not the case-control 10 studies are inconsistent with those that do show statistical significance? MS. CURRY: Object to the form. THE WITNESS: Because they are inconsistent with no. BY MS. GARBER: Q. Okay. Doctor, if we look at Table I, with the exception of, I think, two studies, every one of those relative risks are all to the right of one, are they are inconsistent with thous that. 15 That isn't what I've asked 16 you to do. I've asked you a very simple question. What's the nature of this 17 A. Yes. Q. And you have odds ratio, relative risk. Which is it for the case-control studies? 18 WS. GARBER: Q. And you have odds ratio, relative risk. Which is it for the case-control studies? 20 Q. Which would be proper? A. An odds ratio. Q. Okay. And so — Q. Which would be proper? A. An odds ratio. Q. Okay. And so — Q. Okay. And so — Q. Which would be proper? A. I'm sorry. Hold on. I'm sorry. It's the Page 191 Page 193 Other would be record, please? A. Yeah. Q. And al
2 why I think this is inconsistent. It's 3 not just it's because yes, they 4 don't they they 5 Q. Doctor, excuse me. 6 A. Yes. 7 Q. I'm going to interrupt you 8 there, because 9 MS. SHARKO: You can't do 10 that. 11 BY MS. GARBER: 12 Q. I you you understood 13 my question, yet you felt the need to 14 clarify. 15 That isn't what I've asked 16 you to do. I've asked you a very simple 17 question: What's the nature of this 18 Table I, and then you launched into what 19 the study authors do. 20 A. I I think I might be 21 mistaken about the purpose of this 22 MS. CURRY: Ms. Garber 23 hold on. Can I just state an 24 objection on the record, please? 24 That isn't what I've asked 25 MS. CURRY: Object to the 26 form. 27 The WITNESS: Because they are inconsistent with no. 3 Hy MS. GARBER: Q. Okay. Doctor, if we look at 16 two studies, every one of those relative 17 risks are all to the right of one, are 18 they not? A. Yes. Q. And you have odds ratio, relative risk. Which is it for the case-control studies? MS. CURRY: Object to the form. BY MS. GARBER: Q. Okay. Doctor, if we look at 1able I, with the exception of, I think, two studies, every one of those relative risks are all to the right of one, are they not? A. Yes. Q. And you have odds ratio, relative risk. Which is it for the case-control studies? MS. CURRY: Object to the form. BY MS. GARBER: Q. Which would be proper? A. An odds ratio. Q. Okay. And so A. I'm sorry. Hold on. I'm sorry. One second. I'm sorry. It's the Page 191 Page 193 THE WITNESS: Okay. 1 other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah. Q. And all of those studies are to the right of one except two, right? A. Right. Q. And so all of those are positive because they te to the right of one, correct?
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21 mistaken about the purpose of this 22 MS. CURRY: Ms. Garber 23 hold on. Can I just state an 24 objection on the record, please? 25 Page 191 26 THE WITNESS: Okay. 27 Other way around. Case-control would be relative risk. 28 relative risk. 29 A. I'm sorry. Hold on. I'm sorry. It's the 29 Page 191 20 Okay. And so 21 A. I'm sorry. Hold on. I'm sorry. It's the 20 Page 193 21 THE WITNESS: Okay. 22 Other way around. Case-control would be relative risk. 23 relative risk. 24 clarifying, then he's entitled to clarify the question. 25 Clarify the question. 26 And the question was broader of the right of one except two, right? 27 The WITNESS: Okay. 3 Other way around. Case-control of the relative risk. 3 Other way around. Case-control of the relative risk. 4 Other way around. Case-control of the relative risk. 5 Other way around. Case-control of the relative risk. 6 Other way around. Case-control of the relative risk. 6 Other way around. Case-control of the relative risk. 6 Other way around. Case-control of the relative risk. 6 Other way around. Case-control of the relative risk. 6 Other way around. Case-control of the relative risk. 7 Other way around. Case-control of the relative risk. 8 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other way around. Case-control of the relative risk. 9 Other
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9 whether or not the case-control 9 positive because they're to the right of 10 studies are inconsistent because 10 one, correct?
9 whether or not the case-control 9 positive because they're to the right of 10 studies are inconsistent because 10 one, correct?
'
The term of the te
11 it doesn't show statistical 11 A. No, that's
12 significance. 12 MS. CURRY: Object to the
13 BY MS. GARBER: 13 form.
Q. Doctor, is it your opinion 14 THE WITNESS: That's a
that the studies that do not show 15 misunderstanding of statistics.
statistical significance are unreliable 16 They are not positive because
and attributable to chance? 17 they're to the right of one. It's
A. Yes. 18 defined in the study what they
Q. And is it your opinion that 19 were going to consider a positive
20 the case-control studies that do not 20 study. It had to be above one and
show strike that. 21 have a 95 percent chance that the
Is it your opinion that the 22 true risk estimate was within the
23 studies do not that do not show 23 range of the 95 percent confidence
24 statistical significance are unreliable 24 interval. So once it drops below

	Page 194		Page 196
1	one, you're saying the author	1	off the top of your head?
2	themselves, by doing the	2	A. No. It's such you're
3	statistics, by putting that in the	3	asking something that is so widely
4	materials and methods, they're	4	accepted, that it would be like finding
5	saying I don't consider this a	5	an authority that says water is H2O. I
6	positive study unless I achieve a	6	mean, it's I could find a nice review
7	positive direction above one and	7	article that explains, and this all comes
8	the 95 percent confidence interval	8	down to the quality of the study, and in
9	does not cross one, otherwise why	9	the study design how much risk is there
10	bother doing that?	10	for a spurious value, for a confounder or
11	BY MS. GARBER:	11	for a recall bias to play a role.
12	Q. Can you give me any article,	12	And that's why you have I
13	treatise, authority, that supports that	13	think of 95 confidence intervals as your
14	claim that for a study to be positive, it	14	bumpers, your safety bumpers that keep
15	needs to be greater than one and reach	15	you from making a mistake.
16	statistical significance?	16	Q. Is the point estimate the
17	A. Any treatise?	17	best estimate of risk?
18		18	MS. CURRY: Object to the
19	Q. Any any authority to support that claim?	19	form.
20	11	20	THE WITNESS: The point
	A. Again, I think for each	21	estimate has to be taken into
21	individual paper, I could go through the	22	account with the 95 percent
22	materials and methods, and the author who	23	confidence intervals.
23	wrote that paper will describe, before	24	BY MS. GARBER:
24	they started collecting data, their	24	DI WS. UARDER.
	Page 195		Page 197
1	methodology. And what they were going to	1	Q. That wasn't my question. Is
2	consider significant.	2	the point estimate the best estimate of
3	Q. Do you understand that to be	3	risk?
4	authority?	4	MS. CURRY: Object to the
5	MS. CURRY: Object to the	5	form.
6	form.	6	THE WITNESS: I don't
7	THE WITNESS: I'm saying for	7	understand your question. As
8	each individual person that's	8	opposed to what?
	doing the study, that is their	9	BY MS. GARBER:
9			DI MIS. GIMDLIN.
9 10		10	
	definition of what they considered	10 11	Q. In looking at the data, in
10			Q. In looking at the data, in looking
10 11 12	definition of what they considered a positive study. BY MS. GARBER:	11 12	Q. In looking at the data, in looking A. As opposed to what though?
10 11 12 13	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm	11 12 13	Q. In looking at the data, in lookingA. As opposed to what though?All you get is the point estimate and the
10 11 12 13 14	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm asking you for an authoritative paper	11 12 13 14	Q. In looking at the data, in looking A. As opposed to what though? All you get is the point estimate and the 95 percent confidence interval. So
10 11 12 13 14 15	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm asking you for an authoritative paper that indicates your definition of a	11 12 13 14 15	Q. In looking at the data, in looking A. As opposed to what though? All you get is the point estimate and the 95 percent confidence interval. So you're saying it's better than what?
10 11 12 13 14 15	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm asking you for an authoritative paper that indicates your definition of a positive study meaning greater than one	11 12 13 14 15 16	Q. In looking at the data, in looking A. As opposed to what though? All you get is the point estimate and the 95 percent confidence interval. So you're saying it's better than what? Q. You've never seen that
10 11 12 13 14 15 16 17	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm asking you for an authoritative paper that indicates your definition of a positive study meaning greater than one that reached statistical significance	11 12 13 14 15 16 17	Q. In looking at the data, in looking A. As opposed to what though? All you get is the point estimate and the 95 percent confidence interval. So you're saying it's better than what? Q. You've never seen that statement that the point estimate is the
10 11 12 13 14 15 16 17	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm asking you for an authoritative paper that indicates your definition of a positive study meaning greater than one that reached statistical significance constitutes a positive study. Can you	11 12 13 14 15 16 17 18	Q. In looking at the data, in looking A. As opposed to what though? All you get is the point estimate and the 95 percent confidence interval. So you're saying it's better than what? Q. You've never seen that statement that the point estimate is the best estimate of risk?
10 11 12 13 14 15 16 17 18 19	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm asking you for an authoritative paper that indicates your definition of a positive study meaning greater than one that reached statistical significance constitutes a positive study. Can you please give me an authority for that	11 12 13 14 15 16 17 18	Q. In looking at the data, in looking A. As opposed to what though? All you get is the point estimate and the 95 percent confidence interval. So you're saying it's better than what? Q. You've never seen that statement that the point estimate is the best estimate of risk? A. Have you heard the term
10 11 12 13 14 15 16 17 18 19 20	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm asking you for an authoritative paper that indicates your definition of a positive study meaning greater than one that reached statistical significance constitutes a positive study. Can you please give me an authority for that statement?	11 12 13 14 15 16 17 18 19 20	Q. In looking at the data, in looking A. As opposed to what though? All you get is the point estimate and the 95 percent confidence interval. So you're saying it's better than what? Q. You've never seen that statement that the point estimate is the best estimate of risk? A. Have you heard the term "compared to what"?
10 11 12 13 14 15 16 17 18 19 20 21	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm asking you for an authoritative paper that indicates your definition of a positive study meaning greater than one that reached statistical significance constitutes a positive study. Can you please give me an authority for that statement? A. I'm sure if you gave me the	11 12 13 14 15 16 17 18 19 20 21	Q. In looking at the data, in looking A. As opposed to what though? All you get is the point estimate and the 95 percent confidence interval. So you're saying it's better than what? Q. You've never seen that statement that the point estimate is the best estimate of risk? A. Have you heard the term "compared to what"? Q. Okay. Doctor, what is your
10 11 12 13 14 15 16 17 18 19 20 21 22	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm asking you for an authoritative paper that indicates your definition of a positive study meaning greater than one that reached statistical significance constitutes a positive study. Can you please give me an authority for that statement? A. I'm sure if you gave me the time I could find it. But I don't have	11 12 13 14 15 16 17 18 19 20 21 22	Q. In looking at the data, in looking A. As opposed to what though? All you get is the point estimate and the 95 percent confidence interval. So you're saying it's better than what? Q. You've never seen that statement that the point estimate is the best estimate of risk? A. Have you heard the term "compared to what"? Q. Okay. Doctor, what is your definition of a negative study?
10 11 12 13 14 15 16 17 18 19 20 21	definition of what they considered a positive study. BY MS. GARBER: Q. I understand that. I'm asking you for an authoritative paper that indicates your definition of a positive study meaning greater than one that reached statistical significance constitutes a positive study. Can you please give me an authority for that statement? A. I'm sure if you gave me the	11 12 13 14 15 16 17 18 19 20 21	Q. In looking at the data, in looking A. As opposed to what though? All you get is the point estimate and the 95 percent confidence interval. So you're saying it's better than what? Q. You've never seen that statement that the point estimate is the best estimate of risk? A. Have you heard the term "compared to what"? Q. Okay. Doctor, what is your

50 (Pages 194 to 197)

	Page 198		Page 200
1	definition of a positive study. Anything	1	Holcomb-10.)
2	that doesn't reach your definition of a	2	BY MS. GARBER:
3	positive study there's no in between.	3	Q. I'm going to mark as
4	It's either positive or negative.	4	Exhibit 10 a paper that was just
5	Q. So your definition of	5	published. Doctor, in just looking at
6	negative is a study which can be to the	6	this paper this paper was just
7	right of one or greater than one, but	7	published on March 21st, here at the
8	doesn't reach statistical significance?	8	bottom. March 21, 2019, in Nature.
9	That's how	9	Do you do you know that
10	A. Say this once again.	10	journal?
11	Q. That's how you define a	11	A. Yes.
12	negative study?	12	Q. And what's your opinion of
13	MS. CURRY: Object to the	13	that journal?
14	form.	14	A. Nature?
15	THE WITNESS: I do. And the	15	Q. Mm-hmm.
16	reason being is because when you	16	A. It's a highly respected
17	think about the problems with	17	journal.
18	case-control studies, and it's	18	Q. Thank you.
19	every all the experts on both	19	And do you see that the
20	sides talk about this risk of	20	title of this article is "Retire
21	recall bias. Recall bias never	21	Statistical Significance"?
22	sends your numbers below zero.	22	A. Yes. And this is a comment
23	BY MS. GARBER:	23	in the highly respected journal. Again,
24	Q. Doctor, did I ask you about	24	this is an op Ed piece, not this is
	Page 199	l	
	Page 199		Page 201
1	recall bias?	1	Page 201 not a study.
2	recall bias? A. And I'm explaining why I	1 2	not a study. Q. Doctor, do you see who the
2 3	recall bias?		not a study.
2 3 4	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you	2 3 4	not a study. Q. Doctor, do you see who the study authors are? A. Yes.
2 3 4 5	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion.	2 3 4 5	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander
2 3 4 5 6	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you	2 3 4 5 6	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors?
2 3 4 5 6 7	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement.	2 3 4 5 6 7	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes.
2 3 4 5 6 7 8	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to	2 3 4 5 6 7 8	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes
2 3 4 5 6 7 8 9	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor.	2 3 4 5 6 7 8	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories
2 3 4 5 6 7 8 9	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any	2 3 4 5 6 7 8 9	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and
2 3 4 5 6 7 8 9 10	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any authority to support your claims that	2 3 4 5 6 7 8 9 10	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and dismissal of possibly crucial effects."
2 3 4 5 6 7 8 9 10 11 12	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any authority to support your claims that studies that don't show statistical	2 3 4 5 6 7 8 9 10 11 12	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and dismissal of possibly crucial effects." Do you see that? That's
2 3 4 5 6 7 8 9 10 11 12 13	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any authority to support your claims that studies that don't show statistical significance are attributable to chance	2 3 4 5 6 7 8 9 10 11 12 13	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and dismissal of possibly crucial effects." Do you see that? That's the
2 3 4 5 6 7 8 9 10 11 12 13 14	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any authority to support your claims that studies that don't show statistical significance are attributable to chance and bias?	2 3 4 5 6 7 8 9 10 11 12 13	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and dismissal of possibly crucial effects." Do you see that? That's the A. Yes, I do see that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any authority to support your claims that studies that don't show statistical significance are attributable to chance and bias? A. No. That's not that's	2 3 4 5 6 7 8 9 10 11 12 13 14 15	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and dismissal of possibly crucial effects." Do you see that? That's the A. Yes, I do see that. Q. All right. And let's look
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any authority to support your claims that studies that don't show statistical significance are attributable to chance and bias? A. No. That's not that's not my claim, first of all.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and dismissal of possibly crucial effects." Do you see that? That's the A. Yes, I do see that. Q. All right. And let's look at this paper, if we could, together.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any authority to support your claims that studies that don't show statistical significance are attributable to chance and bias? A. No. That's not that's not my claim, first of all. Q. Okay. Doctor, do you know	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and dismissal of possibly crucial effects." Do you see that? That's the A. Yes, I do see that. Q. All right. And let's look at this paper, if we could, together. It begins by stating, "When
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any authority to support your claims that studies that don't show statistical significance are attributable to chance and bias? A. No. That's not that's not my claim, first of all. Q. Okay. Doctor, do you know who Sander Greenland is?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and dismissal of possibly crucial effects." Do you see that? That's the A. Yes, I do see that. Q. All right. And let's look at this paper, if we could, together. It begins by stating, "When was the last time you heard a seminar
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any authority to support your claims that studies that don't show statistical significance are attributable to chance and bias? A. No. That's not that's not my claim, first of all. Q. Okay. Doctor, do you know who Sander Greenland is? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and dismissal of possibly crucial effects." Do you see that? That's the A. Yes, I do see that. Q. All right. And let's look at this paper, if we could, together. It begins by stating, "When was the last time you heard a seminar speaker claim that there was no
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	recall bias? A. And I'm explaining why I have this opinion. Q. I didn't ask you why you have your opinion. A. Then I'll withdraw my statement. Q. Your lawyer will be able to ask you questions. Thank you, Doctor. Doctor, have you cited any authority to support your claims that studies that don't show statistical significance are attributable to chance and bias? A. No. That's not that's not my claim, first of all. Q. Okay. Doctor, do you know who Sander Greenland is? A. No. Q. Do you know who Kenneth Rothman is? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	not a study. Q. Doctor, do you see who the study authors are? A. Yes. Q. And do you see that Sander Greenland is one of the study authors? A. Yes. Q. And do you see that it goes on to say, "And more than 800 signatories call for an end to the hyped claim and dismissal of possibly crucial effects." Do you see that? That's the A. Yes, I do see that. Q. All right. And let's look at this paper, if we could, together. It begins by stating, "When was the last time you heard a seminar speaker claim that there was no difference between two groups because the difference was statistically nonsignificant?"

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	Page 202		Page 204
1		1	
2	Q. So this is a paper, just	1 2	It is equally absurd to claim that these results were in contrast with earlier
3	from the introduction at least, looking	3	
	like it's going to talk about statistical	4	results showing an identical observed
4	versus non-statistical data using the	1	result, yet these common practices show
5	95 percent confidence interval, right?	5	how reliance on thresholds of statistical
6	A. Right.	6	significance can" "can mislead us (See
7	MS. CURRY: Object to the	7	'Beware false conclusions')."
8	form.	8	Did I read that correctly?
9	BY MS. GARBER:	9	A. You did.
10	Q. Is that fair?	10	Q. And and that's, in fact,
11	And then if you go to the	11	what you've done in Table 1, haven't you?
12	section which indicates the pervasive	12	MS. CURRY: Object to the
13	problem. It says, "Let's be clear about	13	form.
14	what must stop. We should never conclude	14	BY MS. GARBER:
15	that there is no difference or no	15	Q. You've tried to separate
16	association just because a P-value is	16	them by statistically significant and
17	larger than a threshold such as 2	17	nonstatistically significant, correct?
18	point" "such as 0.05."	18	A. As as much I did
19	And then we turn to the next	19	divide them by significance and
20	page, "or equivocally because a	20	nonsignificance.
21	confidence interval includes zero."	21	Based on these doctors
22	MS. CURRY: Take the time to	22	I'm not familiar with them. But they are
23	look it through.	23	clearly worried about missing significant
24	BY MS. GARBER:	24	effects that are small, and I'm not
			,
	Page 203		Page 205
1	Q. "Neither should we include	1	saying I'm not interested in small effect
2	that two studies conflict because one has	2	sizes. But I'm saying that because of
3	a statistically significant result and	3	the risk of of confounders and other
4	the other did not. These errors waste	4	biases, that you need to find if
5	research efforts and misinform policy	5	you're going to have a small effect size,
6	decisions."	6	you're going to need to find consistency
7	Did I read that correctly,	7	along the the onus is going to be
8	Doctor?	8	even stronger to prove that you're not
9	A. Yes, you read that	9	making a spurious conclusion. Because I
10	correctly.	10	would imagine, being Nature contributors,
11	Q. That's the opinion of these	11	these are likely basic science
12	authors and 800 signatories, correct?	12	researchers. And I can show you example
13	MS. CURRY: Object to the	13	after example in clinical medicine where
14	form.	14	nonsignificant findings led to wrong
15	THE WITNESS: I haven't read	15	results. Whether and I give some
16	the full paper, but that's what	16	examples in my report with, you know,
17	the title says, yes.	17	what causes cervix cancer, the effect of
18	BY MS. GARBER:	18	estrogen replacement therapy. These
19	Q. All right. Let's go on to	19	things that we did not use the safety
20	read further down where it indicates, "It	20	bumpers of 95 percent confidence
21	is ludicrous to conclude that the	21	intervals. It just it doesn't mean
22	statistically nonsignificant results	22	that the studies should stop. It just
23	showed no association when the interval	23	
			means and that you have a definitive
24	estimate included serious risk increases	1 72	anguer It means that that should raise
24	estimate included serious risk increases.	24	answer. It means that that should raise

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	Page 206		Page 208
1	questions for you and that should make	1	that he is a plaintiffs' expert
2	you think that there may be something	2	here? I'm just curious.
3	else going on.	3	MS. GARBER: Let's let's
4	MS. GARBER: Objection.	4	go on.
5	Motion to strike as nonresponsive.	5	BY MS. GARBER:
6	BY MS. GARBER:	6	Q. Doctor
7	Q. Doctor, what we're talking	7	MS. O'DELL: Susan, that's
8	about here is ovarian cancer, correct?	8	totally inappropriate. Stop
9	A. Correct.	9	coaching the witness.
10	Q. We're talking about a risk	10	MS. SHARKO: I'm not. I'm
11	of a deadly disease, correct?	11	not coaching him. I'm asking you.
12	A. I treat ovarian cancer,	12	MS. O'DELL: He's not my
13	ma'am. We don't have to go through the	13	expert. I don't know what you're
14	fact it's deadly.	14	talking about.
15	Q. Right. And and so here	15	MS. SHARKO: You identified
16	there is a body of literature over	16	him as an plaintiffs' expert.
17	40 years that's looked at the topic,	17	MS. O'DELL: I did not.
18	right?	18	MS. SHARKO: Yeah, you did.
19	A. Right.	19	Look at your disclosures.
20	Q. And that body of literature	20	All right. We'll send
21 22	has consistent odds ratios throughout	21 22	we'll send you a letter on this, because I'm concerned about that.
23	case-control, cohort and and meta-analyses?	23	MS. GARBER: So I I would
24	A. Cohort, no	24	just like to say I would
21	A. Conort, no		just like to say I would
	Page 207		Page 209
1	MS. CURRY: Object to the	1	appreciate it, Ms. Sharko, if you
	MS. CURRY: Object to the form.	2	appreciate it, Ms. Sharko, if you could stop coaching. I understand
	MS. CURRY: Object to the form. THE WITNESS: I disagree	2 3	appreciate it, Ms. Sharko, if you could stop coaching. I understand your need to, you know, speak up,
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2 3 4 5 6 7	MS. CURRY: Object to the form. THE WITNESS: I disagree with that. BY MS. GARBER: Q. You do? A. Yeah.	2 3 4 5 6 7	appreciate it, Ms. Sharko, if you could stop coaching. I understand your need to, you know, speak up, but Ms. Curry is completely capable of defending the doctor. And your coaching only frustrates the process.
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	Page 210		Page 212
1	to interrupt me off the record?	1	A. So I'm here to give you my
2	There's no question pending.	2	opinions
3	It's a question for the plaintiffs	3	Q. I don't
4	and we'll pursue it. We'll pursue	4	A but you're not you're
5	it off the record.	5	not really interested in my opinions
6	BY MS. GARBER:	6	Q. What I
7	Q. Doctor, could you look at	7	A because every time I try
8	the bottom of this document. And it	8	to offer it to you, you cut me off and
9	indicates: "Beware of false conclusions.	9	you want me to tell you, are you reading
10	Studies currently dubbed statistically	10	his opinions correctly.
11	significant and statistically	11	Q. No, Doctor, I'm asking for
12	nonsignificant need not be contradictory,	12	yours.
13	and as such, designations might cause	13	A. I believe you can read it.
14	genuine effects to be dismissed."	14	Q. Do you agree with that?
15	Do you see that?	15	That was my question. Do you agree with
16	A. Yes.	16	these study authors?
17	Q. The study authors are very	17	A. Can you repeat the
18	concerned about risk of disease being	18	statement?
19	dismissed because a body of literature	19	Q. Okay. Do you agree with
20	shows statistical significance and	20	these strike that.
21	another one showing near statistical	21	These study authors are
22	significance, but experts like you,	22	concerned about dismissing genuine
23	dismissing that risk, they are concerned	23	effects.
24	about that, aren't they?	24	A. Do I agree that they're
	Page 211		Page 213
			1490 213
1	A. Because I'm I'm	1	concerned?
1 2	A. Because I'm I'm concerned	1 2	
	concerned		concerned? Q. Yes.
2	concerned MR. MIZGALA: Object to the	2	concerned?
2	concerned MR. MIZGALA: Object to the form.	2 3	concerned? Q. Yes. MR. MIZGALA: Object to the form.
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	Page 214		Page 216
1	it. Okay.	1	A. I do.
2	MS. SHARKO: I have great	2	Q. And you're drawing
3	respect for you, Ms. Garber. It's	3	categorical differences in the data
4	not my intention to make you feel	4	between statistically significant and
5	disrespected.	5	non-statistically significant, correct?
6	MS. GARBER: When you laugh	6	MS. CURRY: Object to the
7	and you make snide comments, it's	7	form.
8	hard to see that you have great	8	THE WITNESS: Will I be able
9	respect for me.	9	to explain for my reasons doing
10	MS. SHARKO: I haven't	10	so? Or are just going to see if I
11		11	agree with everything that they
12	laughed or made snide comments,	12	• • • • •
	but let's move on.	13	say? BY MS. GARBER:
13	BY MS. GARBER:		
14	Q. Okay. If we move on to the	14	Q. You know what? Your lawyer
15	middle of the column. The authors say,	15	can ask you questions
16	"We agree on the call for the entire	16	A. Okay.
17	concept of statistical significance to be	17	Q that you want asked of
18	abandoned. We are far from alone." And	18	you
19	it goes onto describe, 250 people signed	19	A. Okay.
20	on in the first 24 hours and another 800	20	Q Doctor. But this is my
21	experts.	21	opportunity to ask you questions that I
22	Do you see that?	22	want to ask you.
23	A. Yes.	23	A. Sure.
24	Q. And so it's not just these	24	Q. And finally, turning over to
	Page 215		Page 217
	5		Page 217
1		1	
1 2	study authors. It's it's other	1 2	the next page. The under the heading
2	study authors. It's it's other experts in the field, right?	2	the next page. The under the heading of "Wrong Interpretations," it reads, "An
2	study authors. It's it's other experts in the field, right? MS. CURRY: Object to the	2 3	the next page. The under the heading of "Wrong Interpretations," it reads, "An analysis of 791 articles across five
2 3 4	study authors. It's it's other experts in the field, right? MS. CURRY: Object to the form.	2 3 4	the next page. The under the heading of "Wrong Interpretations," it reads, "An analysis of 791 articles across five journals found that around half
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2 3 4 5 6 7	study authors. It's it's other experts in the field, right? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you understand that from reading this or do you need to read the	2 3 4 5 6 7	the next page. The under the heading of "Wrong Interpretations," it reads, "An analysis of 791 articles across five journals found that around half mistakenly assume non-significance means no effect." Did I read that correctly?
2 3 4 5 6 7 8	study authors. It's it's other experts in the field, right? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you understand that from reading this or do you need to read the whole paper?	2 3 4 5 6 7 8	the next page. The under the heading of "Wrong Interpretations," it reads, "An analysis of 791 articles across five journals found that around half mistakenly assume non-significance means no effect." Did I read that correctly? A. Yes.
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	5	the case-control data as presented in	1	Q. You disagree?
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7 different or inconsistent based on the 7 form.	7	different or inconsistent based on the	1	
8 confidence interval under the authority 8 BY MS. GARBER:				
of the paper we just reviewed, correct? 9 Q. You think			_	
		J		•
	10			
	11			
	11 12			
	11 12 13		1	•
	11 12 13 14	BY MS. GARBER:	1	
	11 12 13 14 15		1	
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, , , , , , , , , , , , , , , , , , , ,	11 12 13 14 15 16 17	paper that we just reviewed	4.0	consistent?
5	11 12 13 14 15 16 17 18	paper that we just reviewed A. Oh, these doctors want to	18	
	11 12 13 14 15 16 17 18 19	paper that we just reviewed A. Oh, these doctors want to get rid of statistics altogether. So we	19	A. The meta-analyses?
j	11 12 13 14 15 16 17 18 19 20	paper that we just reviewed A. Oh, these doctors want to get rid of statistics altogether. So we wouldn't even yeah, they would say	19 20	A. The meta-analyses?Q. Yes.
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	11 12 13 14 15 16 17 18 19 20 21 22	paper that we just reviewed A. Oh, these doctors want to get rid of statistics altogether. So we wouldn't even yeah, they would say don't bother doing them. Q. Where do you see that these	19 20 21 22	A. The meta-analyses?Q. Yes.MS. CURRY: Object to the form.
24 A. Statistical significance, 24 meta-analyses if if I I	11 12 13 14 15 16 17 18 19 20 21 22 23	paper that we just reviewed A. Oh, these doctors want to get rid of statistics altogether. So we wouldn't even yeah, they would say don't bother doing them. Q. Where do you see that these doctors want to get rid of statistics?	19 20 21	A. The meta-analyses?Q. Yes.MS. CURRY: Object to the form.THE WITNESS: The

56 (Pages 218 to 221)

Case 3:16-md-02738-MAS-RLS Document 9735-7 Filed 05/07/19 Page 58 of 190 PageID: 36933 Kevin Holcomb, M.D.

	Page 222		Page 224
1	want to make sure it's okay for me	1	just get into this. I'm half into
2	to expound on this.	2	it.
3	The meta-analyses combine	3	I'll mark the Taher 2018
4	both case-control and cohort	4	meta-analyses as Exhibit 12.
5	studies and come to the conclusion	5	(Document marked for
6	that the case-control studies that	6	identification as Exhibit
7	they are including, find a	7	Holcomb-12.)
8	difference, and usually typically	8	BY MS. GARBER:
9	described as moderate a a	9	Q. And turning as to the
10	weak difference. And cohort	10	topic of consistency, turning over to
11	studies which show no difference.	11	Page 49, under the conclusion, it
12	And they combine them together.	12	reads
13	The few that have kept them	13	A. Page 49, I'm sorry.
14	separate and look separately have	14	Q "Consistent with previous
15	shown no difference in the cohort	15	evaluations, the IARC in 2010 and
16	studies they've put together and a	16	subsequent evaluations by individual
17	difference in the case-control	17	investigators, the present comprehensive
18	studies.	18	evaluation of all currently available
19	BY MS. GARBER:	19	relevant data indicates that perineal
20	Q. Doctor, the authors here in	20	exposure to talcum powder is a possible
21	the Health Canada have concluded that the	21	cause of ovarian cancer in humans."
22		22	First, did I read that
23	meta-analyses are consistent. Do you agree with that?	23	correctly?
24	e	24	A. You did read it correctly.
24	A. Yes. That's what they are	24	A. Tou did lead it confectly.
	Daga 222		
	Page 223		Page 225
1	concluding.	1	Q. And this indicates that the
1 2		1 2	
	concluding.		Q. And this indicates that the
2	concluding. Q. Do you agree with the study	2	Q. And this indicates that the data are consistent
2	concluding. Q. Do you agree with the study authors?	2 3	Q. And this indicates that the data are consistent MS. CURRY: Object to the
2 3 4	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the	2 3 4	Q. And this indicates that the data are consistent MS. CURRY: Object to the form.
2 3 4 5	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form.	2 3 4 5	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER:
2 3 4 5 6	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again	2 3 4 5 6	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct?
2 3 4 5 6 7	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER:	2 3 4 5 6 7	 Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC,
2 3 4 5 6 7 8	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do	2 3 4 5 6 7 8	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes.
2 3 4 5 6 7 8 9	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or	2 3 4 5 6 7 8	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC,
2 3 4 5 6 7 8 9	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent?	2 3 4 5 6 7 8 9	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC, that statement?
2 3 4 5 6 7 8 9 10	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are	2 3 4 5 6 7 8 9 10 11	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC, that statement? A. IARC is basically using the
2 3 4 5 6 7 8 9 10 11 12	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent.	2 3 4 5 6 7 8 9 10 11	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC, that statement? A. IARC is basically using the subsequent evaluations and so consistency
2 3 4 5 6 7 8 9 10 11 12 13	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher	2 3 4 5 6 7 8 9 10 11 12 13	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC, that statement? A. IARC is basically using the subsequent evaluations and so consistency would not be surprising when you're
2 3 4 5 6 7 8 9 10 11 12 13	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you.	2 3 4 5 6 7 8 9 10 11 12 13	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what?	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what? Q. The Taher, T-A-H-E-R. A. Taher	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what? Q. The Taher, T-A-H-E-R. A. Taher Q. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And this indicates that the data are consistent
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	concluding. Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what? Q. The Taher, T-A-H-E-R. A. Taher Q. Yes. A yes. Mm-hmm. MS. CURRY: Ms. Garber,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And this indicates that the data are consistent
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57 (Pages 222 to 225)

	Page 226		Page 228
1	consistency.	1	those contained within IARC's or are
2	The consistency in that	2	those new studies?
3	sense, you know, really doesn't surprise	3	A. Well, interesting, IARC came
4	me. If you take a bunch of studies that	4	to the conclusion that it's a possible
5	have the same risk of bias and even if	5	carcinogen
6	the level of bias is the same, for	6	Q. Doctor, what was my
7	example, if you're doing a case-control	7	question?
8	study in Boston, I wouldn't expect women	8	A. I'm going to answer. And
9	in Massachusetts to be more prone or less	9	this time, you asked me a question, I'm
10	prone to recall bias than a group of	10	going to give you an answer. And
11	women in California.	11	Q. Are you going to give me an
12	So I wouldn't be surprised	12	answer that's
13	to see, especially since they are so	13	A. I'm going to give you a very
14	small, similar risk. And that's why I	14	direct answer to the question you
15	have a problem with the commenters in	15	asked
16	Nature to say you don't need these, these	16	Q. That would be great.
17	safe ways, because as long as they keep	17	A and if you would give me
18	going in the same direction, we should be	18	a chance, you would have found out that
19	assuming it's real.	19	it would have been that case.
20	But what if all the studies	20	So IARC 2010 looks at talc.
21	have the same problem, and that problem	21	They have one prospective trial included
22	takes your risk estimate in the same	22	in that.
23	direction? And that's the problem I have	23	In the coming years, you
24	with just getting away with intervals,	24	asked, are there subsequent data that was
	Page 227		Page 229
1	then, in any case.	1	added to it. Well, IARC comes to this
2	So yes, IARC reviewed the	2	conclusion, in the subsequent years
2	So yes, IARC reviewed the individual investigator's data and came	2 3	conclusion, in the subsequent years there's three more prospective studies
2 3 4	So yes, IARC reviewed the individual investigator's data and came to this conclusion, and they are coming	2 3 4	conclusion, in the subsequent years there's three more prospective studies that are not included in IARC that come
2 3 4 5	So yes, IARC reviewed the individual investigator's data and came	2 3 4 5	conclusion, in the subsequent years there's three more prospective studies
2 3 4 5 6	So yes, IARC reviewed the individual investigator's data and came to this conclusion, and they are coming to the same conclusion, largely looking at the same data.	2 3 4 5 6	conclusion, in the subsequent years there's three more prospective studies that are not included in IARC that come to the conclusion that there is no association.
2 3 4 5	So yes, IARC reviewed the individual investigator's data and came to this conclusion, and they are coming to the same conclusion, largely looking at the same data. Taher's meta-analysis is	2 3 4 5 6 7	conclusion, in the subsequent years there's three more prospective studies that are not included in IARC that come to the conclusion that there is no association. And there are a number of
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2 3 4 5 6 7 8 9	So yes, IARC reviewed the individual investigator's data and came to this conclusion, and they are coming to the same conclusion, largely looking at the same data. Taher's meta-analysis is basically Berge's, it's basically Penninkilampi. There's no new data in there. It's rechurning the same data.	2 3 4 5 6 7 8 9	conclusion, in the subsequent years there's three more prospective studies that are not included in IARC that come to the conclusion that there is no association. And there are a number of pooled analysis, and and meta-analysis that keeps rechurning the same old data that's in IARC.
2 3 4 5 6 7 8 9 10	So yes, IARC reviewed the individual investigator's data and came to this conclusion, and they are coming to the same conclusion, largely looking at the same data. Taher's meta-analysis is basically Berge's, it's basically Penninkilampi. There's no new data in there. It's rechurning the same data. So to say that this is	2 3 4 5 6 7 8 9 10 11	conclusion, in the subsequent years there's three more prospective studies that are not included in IARC that come to the conclusion that there is no association. And there are a number of pooled analysis, and and meta-analysis that keeps rechurning the same old data that's in IARC. So there's a number of
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	So yes, IARC reviewed the individual investigator's data and came to this conclusion, and they are coming to the same conclusion, largely looking at the same data. Taher's meta-analysis is basically Berge's, it's basically Penninkilampi. There's no new data in there. It's rechurning the same data. So to say that this is consistent with this and this is consistent with this, and you're all looking at the same studies, to do the same thing over and over and expect a different outcome is insanity.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	conclusion, in the subsequent years there's three more prospective studies that are not included in IARC that come to the conclusion that there is no association. And there are a number of pooled analysis, and and meta-analysis that keeps rechurning the same old data that's in IARC. So there's a number of studies that have come out since IARC. I would say the balance of which have been stronger design studies that have shown no increased risk. And I'll be curious to see what IARC thinks the next time
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So yes, IARC reviewed the individual investigator's data and came to this conclusion, and they are coming to the same conclusion, largely looking at the same data. Taher's meta-analysis is basically Berge's, it's basically Penninkilampi. There's no new data in there. It's rechurning the same data. So to say that this is consistent with this and this is consistent with this, and you're all looking at the same studies, to do the same thing over and over and expect a different outcome is insanity. Q. Are you done? A. Yes. Q. What was my question? A. Did I agree with this? Q. Okay. That wasn't my question.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	conclusion, in the subsequent years there's three more prospective studies that are not included in IARC that come to the conclusion that there is no association. And there are a number of pooled analysis, and and meta-analysis that keeps rechurning the same old data that's in IARC. So there's a number of studies that have come out since IARC. I would say the balance of which have been stronger design studies that have shown no increased risk. And I'll be curious to see what IARC thinks the next time they sit down and pool all this together. Q. Doctor, Endnote 3 and 5 and 69 do not cite to IARC. Are you aware of that? A. 3, 5 and 69 in IARC? Q. Yeah. I'll represent to you
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	Page 230		Page 232
1	Penninkilampi, what are the studies in	1	fact, you'll see that Purdie and Green,
2	those?	2	same dataset. You'll see that Wu 2015
3	Q. Those are just rechurning in	3	includes Wu 2009. You'll see that Cramer
4	your opinion. Those are just	4	2016 includes Cramer 2009.
5	A. I'm saying	5	So is it surprising that
6	Q those studies are	6	2009 Cramer and 2015 Cramer looks the
7	invaluable because they are just	7	same when the half of 2016 is 2009?
8	rechurning the prior meta-analyses.	8	Q. Shall we throw out
9	Is that your opinion?	9	A. It is rechurning
10	MS. CURRY: Object to the	10	Q. Shall we throw out the
11	form.	11	meta-analysis because they are
12	THE WITNESS: I'm saying	12	rechurning?
13	that there's very little	13	A. I'm saying all no. I'm
14	difference between Taher's	14	saying that meta
15	meta-analysis and Penninkilampi's	15	MS. CURRY: Object to the
16	meta-analysis, and Berge's	16	form.
17	meta-analysis.	17	We have to do this in in
18	The overlap in those studies	18	question and answer or you're
19	is great. There's very that's	19	going to drive the court reporter
20	not much difference between those.	20	crazy.
21	They have very similar number of	21	THE WITNESS: I apologize.
22	studies. And so yes, it is a	22	MS. CURRY: Let her get her
23	rechurning of the same data.	23	full question out, give me a
24	BY MS. GARBER:	24	second if I need to make an
	Dama 221		
	Page 231		Page 233
1		1	
1 2	Q. That doesn't provide you	1 2	objection, and then please let him finish his answer.
	Q. That doesn't provide you with support that those data are robust?		objection, and then please let him
2	Q. That doesn't provide you	2	objection, and then please let him finish his answer.
2	Q. That doesn't provide you with support that those data are robust? A. If you	2 3	objection, and then please let him finish his answer. BY MS. GARBER:
2 3 4	Q. That doesn't provide you with support that those data are robust? A. If you MS. CURRY: Object to the	2 3 4	objection, and then please let him finish his answer. BY MS. GARBER: Q. Doctor, should we throw out
2 3 4 5	Q. That doesn't provide you with support that those data are robust? A. If you MS. CURRY: Object to the form.	2 3 4 5	objection, and then please let him finish his answer. BY MS. GARBER: Q. Doctor, should we throw out the meta-analyses because the subsequent meta-analyses are just rechurning of prior meta-analyses?
2 3 4 5 6 7 8	Q. That doesn't provide you with support that those data are robust? A. If you MS. CURRY: Object to the form. THE WITNESS: No. If you	2 3 4 5 6 7 8	objection, and then please let him finish his answer. BY MS. GARBER: Q. Doctor, should we throw out the meta-analyses because the subsequent meta-analyses are just rechurning of
2 3 4 5 6 7 8 9	Q. That doesn't provide you with support that those data are robust? A. If you MS. CURRY: Object to the form. THE WITNESS: No. If you if you BY MS. GARBER: Q. Different authors doing	2 3 4 5 6 7 8	objection, and then please let him finish his answer. BY MS. GARBER: Q. Doctor, should we throw out the meta-analyses because the subsequent meta-analyses are just rechurning of prior meta-analyses? A. No, what I'm saying is don't say Penninkilampi, Berge, and the
2 3 4 5 6 7 8 9	Q. That doesn't provide you with support that those data are robust? A. If you MS. CURRY: Object to the form. THE WITNESS: No. If you if you BY MS. GARBER: Q. Different authors doing picking basically different studies	2 3 4 5 6 7 8 9	objection, and then please let him finish his answer. BY MS. GARBER: Q. Doctor, should we throw out the meta-analyses because the subsequent meta-analyses are just rechurning of prior meta-analyses? A. No, what I'm saying is don't say Penninkilampi, Berge, and the don't count three in the same way that
2 3 4 5 6 7 8 9 10	Q. That doesn't provide you with support that those data are robust? A. If you MS. CURRY: Object to the form. THE WITNESS: No. If you if you BY MS. GARBER: Q. Different authors doing picking basically different studies A. Different studies? That's	2 3 4 5 6 7 8 9 10 11	objection, and then please let him finish his answer. BY MS. GARBER: Q. Doctor, should we throw out the meta-analyses because the subsequent meta-analyses are just rechurning of prior meta-analyses? A. No, what I'm saying is don't say Penninkilampi, Berge, and the don't count three in the same way that in my list of case-control studies, you
2 3 4 5 6 7 8 9 10 11 12	Q. That doesn't provide you with support that those data are robust? A. If you MS. CURRY: Object to the form. THE WITNESS: No. If you if you BY MS. GARBER: Q. Different authors doing picking basically different studies A. Different studies? That's what I'm saying, they are not different	2 3 4 5 6 7 8 9 10 11 12	objection, and then please let him finish his answer. BY MS. GARBER: Q. Doctor, should we throw out the meta-analyses because the subsequent meta-analyses are just rechurning of prior meta-analyses? A. No, what I'm saying is don't say Penninkilampi, Berge, and thedon't count three in the same way that in my list of case-control studies, you shouldn't consider Purdie and Green
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. That doesn't provide you with support that those data are robust? A. If you MS. CURRY: Object to the form. THE WITNESS: No. If you if you BY MS. GARBER: Q. Different authors doing picking basically different studies A. Different studies? That's what I'm saying, they are not different studies. Q. Okay. A. They're talking the same	2 3 4 5 6 7 8 9 10 11 12 13 14	objection, and then please let him finish his answer. BY MS. GARBER: Q. Doctor, should we throw out the meta-analyses because the subsequent meta-analyses are just rechurning of prior meta-analyses? A. No, what I'm saying is don't say Penninkilampi, Berge, and thedon't count three in the same way that in my list of case-control studies, you shouldn't consider Purdie and Green different studies. Even though I have a list there just to show that I was being comprehensive. It's the same dataset.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. That doesn't provide you with support that those data are robust? A. If you MS. CURRY: Object to the form. THE WITNESS: No. If you if you BY MS. GARBER: Q. Different authors doing picking basically different studies A. Different studies? That's what I'm saying, they are not different studies. Q. Okay. A. They're talking the same studies.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	objection, and then please let him finish his answer. BY MS. GARBER: Q. Doctor, should we throw out the meta-analyses because the subsequent meta-analyses are just rechurning of prior meta-analyses? A. No, what I'm saying is don't say Penninkilampi, Berge, and thedon't count three in the same way that in my list of case-control studies, you shouldn't consider Purdie and Green different studies. Even though I have a list there just to show that I was being comprehensive. It's the same dataset. So my point is, if you're
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. That doesn't provide you with support that those data are robust? A. If you MS. CURRY: Object to the form. THE WITNESS: No. If you if you BY MS. GARBER: Q. Different authors doing picking basically different studies A. Different studies? That's what I'm saying, they are not different studies. Q. Okay. A. They're talking the same studies. Q. I'm talking about the body of meta-analyses. A. I'm telling you that Penninkilampi, and Berge, and Taher, if you look at the overlap in the studies that they are putting together, if you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	objection, and then please let him finish his answer. BY MS. GARBER: Q. Doctor, should we throw out the meta-analyses because the subsequent meta-analyses are just rechurning of prior meta-analyses? A. No, what I'm saying is don't say Penninkilampi, Berge, and thedon't count three in the same way that in my list of case-control studies, you shouldn't consider Purdie and Green different studies. Even though I have a list there just to show that I was being comprehensive. It's the same dataset. So my point is, if you're look if there's a lot of overlap, you shouldn't then look and say, well, this is consistent, because what Bradford Hill meant by consistency was different populations in different places at different times. That's not the spirit

	Page 234		Page 236
1	them over and over again.	1	will say that, yes, when you don't have
2	Q. There's not 100 percent	2	overlap you get a 50/50. You get a 50/50
3	overlap in any of the studies, is there?	3	significance, 50/50 non-significance.
4	A. Not 100 percent. But the	4	If you keep churning the
5	majority of them. The majority of Berge	5	same data over, you would be surprised to
6	is in Taher, and the majority of	6	see it drop out of significance. And in
7	Penninkilampi is in Taher.	7	fact, when you look at Berge, which is
8	You do the math and tell me	8	really the only meta-analysis I I
9	what percentage is not there. It's the	9	wouldn't say it's the only meta-analysis
10	same. It's the majority, it's the	10	that I respect.
11	same studies.	11	But one of the rules of
12	Q. In the case-control studies	12	meta-analysis is that you have to do a
13	is the majority are the majority of	13	test for heterogeneity before you just
14	those studies overlap of the prior	14	decide to throw these studies together
15	studies?	15	and it's valid to do so.
16	MS. CURRY: Object to the	16	And I look at Penninkilampi.
17	form.	17	And Penninkilampi says, well, I did a
18	THE WITNESS: I don't	18	study for heterogeneity. And I looked
19	understand what you mean.	19	at, make sure they use condoms and
20	BY MS. GARBER:	20	diaphragms and perineal dusting. And
21	Q. Well, you seem to take issue	21	that's what he's looking for
22	with that there's overlap? So	22	heterogeneity.
23	let's	23	But the biggest form of
24	A. There's some.	24	heterogeneity, the one thing that they
	Page 235		Page 237
1	Q. Let's talk about the	1	don't montion is the first thing Dance
_			don't mention, is the first thing beige
2	case-control studies.	2	don't mention, is the first thing Berge did. What if you looked at the
2 3	•		did. What if you looked at the case-control studies and the cohort
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1	form.	1	Q. Very well.
2	THE WITNESS: Looking at a	2	In the case-control studies
3	very similar group of studies as	3	that are here published in Table 1, do
4	Berge, and somehow Berge came up	4	those studies involve study participants
5	with heterogeneity and mentions	5	of different ethnicities?
6	the heterogeneity between study	6	A. Yes.
7	design, and Penninkilampi, if you	7	Q. And do those studies involve
8	look at what they looked at as far	8	case-control studies that have occurred
9	as heterogeneity, they never say	9	over decades, in other words from 1982 to
10	that they saw a lack of	10	recently?
11	heterogeneity between cohort	11	A. Yes.
12	studies and case-control studies.	12	Q. Okay. And while some of
13	And how could you not find	13	them are in the United States, some are
14	heterogeneity when you have none	14	in foreign countries?
15	of the cohort studies showing a	15	A. Majority in the United
16	significant impact?	16	States.
17	BY MS. GARBER:	17	Q. But some are in foreign
18	Q. Are you an advocate for the	18	countries?
19	defense?	19	A. A few.
20	MS. CURRY: Object to the	20	Q. Yeah. And
21	form.	21	MR. MIZGALA: Could you
22	THE WITNESS: I'm an	22	raise your voice just a little
23	advocate for the truth. But I'm	23	bit?
24	the biggest advocate for my	24	MS. GARBER: Yeah.
	Page 239		Page 241
	J		rage 241
1	patients. But that's a whole	1	MR. MIZGALA: Thank you.
2	patients. But that's a whole other story.	2	MR. MIZGALA: Thank you. BY MS. GARBER:
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2 3 4 5	patients. But that's a whole other story. BY MS. GARBER: Q. You are an advocate for your patients?	2 3 4 5	MR. MIZGALA: Thank you. BY MS. GARBER: Q. And with regard to the case-control cohorts and meta-analyses, the published literature with regard to
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	patients. But that's a whole other story. BY MS. GARBER: Q. You are an advocate for your patients? A. I am. Q. Do you advise them that it's safe to put asbestos on their genitals? A. No, I don't. MS. CURRY: Is it a good time good breaking point for you? MS. GARBER: Sure. THE VIDEOGRAPHER: Off the record, right? The time is 1:07 p.m. Off the record. (Lunch break.) THE VIDEOGRAPHER: We are back on the record. The time is 2:04 p.m. BY MS. GARBER: Q. Good afternoon, Doctor. Did	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. MIZGALA: Thank you. BY MS. GARBER: Q. And with regard to the case-control cohorts and meta-analyses, the published literature with regard to talc and ovarian cancer contained different study designs, can we agree with that? A. Yes. Q. And even within the case-control studies, those involve different study designs generally? MS. CURRY: Object to the form. THE WITNESS: No. The case-control is a study design. BY MS. GARBER: Q. Okay. I'll just strike that. All right. Is it your opinion that unless a given study is statistically significant and with an

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	Page 242		Page 244
1	chance?	1	MS. CURRY: Object to the
2	MS. CURRY: Object to the	2	form.
3	form.	3	THE WITNESS: Which type of
4	THE WITNESS: No.	4	cancer are you referring to?
5	BY MS. GARBER:	5	BY MS. GARBER:
6	Q. That's not your opinion?	6	Q. We'll start with breast
7	A. No.	7	cancer.
8	Q. Who is Melissa Frey?	8	A. I don't know the odds ratio
9	A. She is one of my partners at	9	exactly, no.
10	Cornell. She is a GYN oncologist.	10	Q. Doctor, if I represent to
11	Q. Do you respect her as a	11	you that the odds ratio for Prempro and
12	clinician?	12	breast cancer is a 1.24, you don't have
13	MS. CURRY: Object to the	13	any reason to dispute that, do you?
14	form.	14	MS. CURRY: Object to the
15	THE WITNESS: Yes, I do.	15	form.
16	BY MS. GARBER:	16	THE WITNESS: I I don't
17	Q. Do you respect her	17	know the odds ratio.
18	professional judgment?	18	BY MS. GARBER:
19	A. Yes.	19	Q. Do you know, Doctor, or are
20	Q. You indicate in your expert	20	you aware that Prempro carries a black
21	report that use of hormone replacement	21	box warning for a risk of breast cancer
22	therapy, or can we call that HRT?	22	based on an odds ratio of 1.24?
23	A. It depends what you're	23	A. For all patients?
24	talking about. If you're talking about a	24	Q. Yes.
	Page 243		Page 245
1	combination single I I assume we're	1	A. No, I wasn't aware of that.
2	going to specify what you're referring	2	Q. No for menopausal women.
3	to.	3	Are you aware of that?
4	Q. Okay. For purposes of your	4	A. No.
5	expert report with regard to risk factors	5	Q. Do you believe that the risk
6	and HRT, what are you referencing?	6	associated with talc and ovarian cancer
7	A. Most of the studies that	7	is generally 1.3 to 1.4?
8	show a significant increased risk is with	8	MS. CURRY: Object to the
9	estrogen replacement alone.	9	form.
10	Q. Okay. And you believe that	10	THE WITNESS: I believe in
11	HRT is a risk factor for ovarian cancer,	11	my report I say it's between 1.2
12	or do you limit that to estrogen alone?	12	and 1.6. So I'll stick with that.
13	A. I would limit it to estrogen	13	BY MS. GARBER:
14	alone.	14	Q. Okay. And so that would be
15	Q. Okay. In caring for women	15	a 20 to 60 percent increased risk of
16	who use HRT in connection with menopause,	16	ovarian cancer associated with talcum
17	have you had the occasion to prescribe or	17	powder products, right?
18	care for a woman using HRT Prempro?	18	A. In the studies that show a
19	A. Yes.	19	risk increase at all, yes.
20	Q. Did you ever prescribe it?	20	Q. And you believe that that
21	A. Yes, I have.	21	odds ratio or relative risk is low?
22 23	Q. Are you aware that the what the odds ratio or the risks are	22	MS. CURRY: Object to the
24	associated with that drug for cancer?	23 24	form. THE WITNESS: Yes.
	annomated with that and IVI Called i		

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	Page 246		Page 248
1	BY MS. GARBER:	1	prevalence is in the United States for
2	Q. And do you, therefore, feel	2	use of talcum powder products?
3	that it does not meet sufficiency of a	3	MS. CURRY: Object to the
4	magnitude of a risk to be reliable under	4	form.
5	the Bradford Hill factors?	5	THE WITNESS: The different
6	A. No	6	studies that I reviewed had
7	MS. CURRY: Object to the	7	different different prevalence
8	form.	8	of use. And I think it's somewhat
9	THE WITNESS: that's not	9	
10		10	related to the ethnic group. For
	my opinion.	11	example, the group that has
11	BY MS. GARBER:	l	probably one of the lowest rates
12	Q. Okay. Do you have any	12	of ovarian cancer is African
13	opinion as to the magnitude of the risk	13	Americans, and historically they
14	or strength of the association between	14	have one of the highest uses of
15	the talc literature and ovarian cancer?	15	talc.
16	A. Please repeat the question.	16	But for example, in Gertig
17	Q. Sure. Do you have an	17	at the at that time of that
18	opinion as to the strength of the	18	study I believe it was about
19	association or magnitude of the risk as	19	42 percent of women reported using
20	it pertains to the talc ovarian cancer	20	it with about 14 percent using it
21	literature?	21	daily.
22	MS. CURRY: Object to the	22	BY MS. GARBER:
23	form.	23	Q. You've seen literature that
24	THE WITNESS: It's generally	24	cites it as high as 50 percent in the
	Page 247		Page 249
1	referred to it's generally	1	United States, right?
2	referred to as modest. In some	2	A. Yes.
2	referred to as modest. In some cases weak. And I would I	2 3	A. Yes.Q. Do you agree with the Narod
2 3 4	referred to as modest. In some cases weak. And I would I would agree with that.	2 3 4	A. Yes. Q. Do you agree with the Narod author in 2016 that it's right to be
2 3	referred to as modest. In some cases weak. And I would I	2 3 4 5	A. Yes. Q. Do you agree with the Narod author in 2016 that it's right to be concerned over carcinogenicity of talc
2 3 4	referred to as modest. In some cases weak. And I would I would agree with that.	2 3 4	A. Yes. Q. Do you agree with the Narod author in 2016 that it's right to be
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2 3 4 5 6	referred to as modest. In some cases weak. And I would I would agree with that. BY MS. GARBER: Q. You are aware of peer-reviewed and published studies that	2 3 4 5 6	A. Yes. Q. Do you agree with the Narod author in 2016 that it's right to be concerned over carcinogenicity of talc even if a risk ratio is below 50 percent?
2 3 4 5 6 7	referred to as modest. In some cases weak. And I would I would agree with that. BY MS. GARBER: Q. You are aware of	2 3 4 5 6 7	A. Yes. Q. Do you agree with the Narod author in 2016 that it's right to be concerned over carcinogenicity of talc even if a risk ratio is below 50 percent? MS. CURRY: Object to the
2 3 4 5 6 7 8	referred to as modest. In some cases weak. And I would I would agree with that. BY MS. GARBER: Q. You are aware of peer-reviewed and published studies that hold the opposite opinion to yours, right, that that the magnitude of	2 3 4 5 6 7 8	A. Yes. Q. Do you agree with the Narod author in 2016 that it's right to be concerned over carcinogenicity of talc even if a risk ratio is below 50 percent? MS. CURRY: Object to the form.
2 3 4 5 6 7 8 9	referred to as modest. In some cases weak. And I would I would agree with that. BY MS. GARBER: Q. You are aware of peer-reviewed and published studies that hold the opposite opinion to yours,	2 3 4 5 6 7 8 9	A. Yes. Q. Do you agree with the Narod author in 2016 that it's right to be concerned over carcinogenicity of talc even if a risk ratio is below 50 percent? MS. CURRY: Object to the form. THE WITNESS: No. I think
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	Page 250		Page 252
1	not surprising, because it's the	1	including the desirability of the
2	most predominate cell type.	2	exposure.
3	BY MS. GARBER:	3	But so I think all
4	Q. Do you agree if women tend	4	behaviors are subject to changes
5	to use talc daily, as you indicate in	5	in recall based on the specifics.
6	your report, that the use becomes	6	BY MS. GARBER:
7	habitual rather than memorable?	7	Q. Do you believe that the
8	A. Habitual rather than	8	case-control studies are unreliable for
9	memorable?	9	assessment of risk for talcum powder
10	Q. Mm-hmm.	10	exposure in ovarian cancer based on
11	MS. CURRY: Object to the	11	recall bias?
12	form.	12	MS. CURRY: Object to the
13	BY MS. GARBER:	13	form.
14		14	THE WITNESS: I think all
15	Q. Do you understand the nature	15	case-control studies have a risk
	of my question?	16	
16	A. No, I guess I have to think	17	of recall bias, not just limited
17	about that.		to ovarian cancer studies. BY MS, GARBER:
18	Q. Let me see if I can help.	18	
19	So if, let's say, I have grown up	19	Q. I understand they're at risk
20	brushing my teeth every single day twice	20	for that. Is it your opinion that the
21	a day with Crest toothpaste, and somebody	21	case-control studies have had recall bias
22	wants to know what I've done over my	22	at play to explain that increase in risk?
23	lifetime, I don't have to think about,	23	A. I think that's one of the
24	oh, did I use Crest every single day,	24	possible explanations, yes.
	Page 251		Page 253
1	twice a day? It's habitual because I've	1	Q. Possible, not probable?
2	done it my whole life, rather than if I	2	MS. CURRY: Object to the
3	used one product one day and another	3	form.
4	product the other day and, you know, it	4	THE WITNESS: I would argue
5	was not something that was part of my	5	probable.
6	ADLs. You understand what ADLs are, of	6	BY MS. GARBER:
7	course.	7	Q. Okay. I got you to change
8	A. I do.	8	it to a probable?
	Q. Yeah. Activities of daily	l	
9	Q. Teall. Activities of daily	9	A. Yes.
10		10	A. Yes.
	living. So if it was not part of an activity of daily living, it might be		A. Yes.
10	living. So if it was not part of an	10	A. Yes. Q. Are you aware of literature that says it's not likely at play to
10 11	living. So if it was not part of an activity of daily living, it might be more memorable.	10 11	A. Yes.Q. Are you aware of literature
10 11 12	living. So if it was not part of an activity of daily living, it might be more memorable. Do you understand now?	10 11 12	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks?
10 11 12 13	living. So if it was not part of an activity of daily living, it might be more memorable.	10 11 12 13	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks? A. I have read opinions about
10 11 12 13 14	living. So if it was not part of an activity of daily living, it might be more memorable. Do you understand now? MS. CURRY: Object to the form.	10 11 12 13 14	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks? A. I have read opinions about it, but literature, no.
10 11 12 13 14 15	living. So if it was not part of an activity of daily living, it might be more memorable. Do you understand now? MS. CURRY: Object to the form. THE WITNESS: I honestly,	10 11 12 13 14 15	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks? A. I have read opinions about it, but literature, no. Q. Okay. Are you aware of
10 11 12 13 14 15 16	living. So if it was not part of an activity of daily living, it might be more memorable. Do you understand now? MS. CURRY: Object to the form. THE WITNESS: I honestly, I think my understanding of this	10 11 12 13 14 15 16	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks? A. I have read opinions about it, but literature, no. Q. Okay. Are you aware of authors that have studied the topic of
10 11 12 13 14 15 16 17	living. So if it was not part of an activity of daily living, it might be more memorable. Do you understand now? MS. CURRY: Object to the form. THE WITNESS: I honestly, I think my understanding of this isn't that certain things are	10 11 12 13 14 15 16 17 18	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks? A. I have read opinions about it, but literature, no. Q. Okay. Are you aware of authors that have studied the topic of talcum powder products and risk of
10 11 12 13 14 15 16 17	living. So if it was not part of an activity of daily living, it might be more memorable. Do you understand now? MS. CURRY: Object to the form. THE WITNESS: I honestly, I think my understanding of this	10 11 12 13 14 15 16 17 18 19	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks? A. I have read opinions about it, but literature, no. Q. Okay. Are you aware of authors that have studied the topic of talcum powder products and risk of ovarian cancer who have concluded that
10 11 12 13 14 15 16 17 18	living. So if it was not part of an activity of daily living, it might be more memorable. Do you understand now? MS. CURRY: Object to the form. THE WITNESS: I honestly, I think my understanding of this isn't that certain things are memorable and certain things are habitual. It's that activities	10 11 12 13 14 15 16 17 18	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks? A. I have read opinions about it, but literature, no. Q. Okay. Are you aware of authors that have studied the topic of talcum powder products and risk of ovarian cancer who have concluded that recall bias is not at play?
10 11 12 13 14 15 16 17 18 19 20	living. So if it was not part of an activity of daily living, it might be more memorable. Do you understand now? MS. CURRY: Object to the form. THE WITNESS: I honestly, I think my understanding of this isn't that certain things are memorable and certain things are habitual. It's that activities can be impacted by alterations in	10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks? A. I have read opinions about it, but literature, no. Q. Okay. Are you aware of authors that have studied the topic of talcum powder products and risk of ovarian cancer who have concluded that recall bias is not at play? MS. CURRY: Object to the
10 11 12 13 14 15 16 17 18 19 20 21	living. So if it was not part of an activity of daily living, it might be more memorable. Do you understand now? MS. CURRY: Object to the form. THE WITNESS: I honestly, I think my understanding of this isn't that certain things are memorable and certain things are habitual. It's that activities can be impacted by alterations in your recall of those things by a	10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks? A. I have read opinions about it, but literature, no. Q. Okay. Are you aware of authors that have studied the topic of talcum powder products and risk of ovarian cancer who have concluded that recall bias is not at play? MS. CURRY: Object to the form.
10 11 12 13 14 15 16 17 18 19 20 21 22	living. So if it was not part of an activity of daily living, it might be more memorable. Do you understand now? MS. CURRY: Object to the form. THE WITNESS: I honestly, I think my understanding of this isn't that certain things are memorable and certain things are habitual. It's that activities can be impacted by alterations in	10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. Are you aware of literature that says it's not likely at play to explain the increased odds ratios or relative risks? A. I have read opinions about it, but literature, no. Q. Okay. Are you aware of authors that have studied the topic of talcum powder products and risk of ovarian cancer who have concluded that recall bias is not at play? MS. CURRY: Object to the

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	Page 254		Page 256
1	BY MS. GARBER:	1	Here's a screen. The doctor has a
2	Q. Sure. Have you have you	2	screen.
3	read peer-reviewed published studies	3	BY MS. GARBER:
3 4 5 6 7 8	where the authors were studying talcum	4	Q. Doctor, at Page 464 of this
5	powder products and the risk of ovarian	5	paper, if you can turn to that, the last
6	cancer and have concluded that recall	6	page of the study. And on the left-hand
7	bias was not at play as increasing the	7	column, about halfway down the paragraph,
8	risk for ovarian cancer?	8	it begins "recall."
9	MS. CURRY: Object to the	9	Do you see where I am? If
10	form.	10	you look if you look here, Doctor.
11	THE WITNESS: No. In fact,	11	See?
12	the only time I remember a study	12	A. Yeah.
13	really getting into this where	13	Q. Okay. It reads, "Recall
14	they had proof was Schildkraut	14	bias has also been implicated as a
15	2016, where there was a pretty	15	limitation in studies of tale and ovarian
16	significant increase and people	16	cancer. However, findings in a
17	remembering being exposed to talc	17	prospective" "in a prospective study,
18	after 2014 compared to before	18	the Nurses' Health Study, in which
19	2014.	19	exposure data were collected prior to
20	And I can't think of any	20	diagnosis and hence free of recall bias
21	other explanation for that	21	were similar to the present finding for
22	difference other than recall bias.	22	our tale use and serous invasive ovarian
23	BY MS. GARBER:	23	cancer.
24	Q. Well, we'll get to that	24	"It has also been suggested
	Page 255		Page 257
1	paper. And I appreciate that. But you	1	that use of talc is habitual versus
2	just used a term, "proof." What do you	2	memorable and not likely to be subject to
3	mean by that?	3	recall bias."
4	A. I don't know exactly what I	4	So, Doctor, my question is,
5	said. Can you repeat my statement?	5	this is a peer-reviewed study author who
6	Q. You said, "I remember a	6	is suggesting that the studies are
7	study really getting into this where they	7	similar between case-control and a cohort
8	had proof, was Schildkraut 2016, where	8	and suggesting that recall bias is not at
_			
9	there were pretty significant"	9	play because the use is habitual versus
10	A. Let me change the word from	10	play because the use is habitual versus memorable.
10 11	A. Let me change the word from "proof" to "evidence."	10 11	play because the use is habitual versus memorable. Do you agree?
10 11 12	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some	10 11 12	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the
10 11 12 13	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies.	10 11 12 13	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form.
10 11 12 13 14	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for	10 11 12 13 14	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I
10 11 12 13 14 15	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for identification as Exhibit	10 11 12 13 14 15	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I explain why?
10 11 12 13 14 15 16	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for identification as Exhibit Holcomb-13.)	10 11 12 13 14 15 16	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I explain why? BY MS. GARBER:
10 11 12 13 14 15 16 17	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for identification as Exhibit Holcomb-13.) BY MS. GARBER:	10 11 12 13 14 15 16 17	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I explain why? BY MS. GARBER: Q. I don't I don't mean
10 11 12 13 14 15 16 17 18	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for identification as Exhibit Holcomb-13.) BY MS. GARBER: Q. I'm going to mark as	10 11 12 13 14 15 16 17 18	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I explain why? BY MS. GARBER: Q. I don't I don't mean agree with the author. Do you agree with
10 11 12 13 14 15 16 17 18	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for identification as Exhibit Holcomb-13.) BY MS. GARBER: Q. I'm going to mark as Exhibit 13 a paper by Mills, et al. This	10 11 12 13 14 15 16 17 18 19	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I explain why? BY MS. GARBER: Q. I don't I don't mean agree with the author. Do you agree with my assessment of what the authors are
10 11 12 13 14 15 16 17 18 19 20	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for identification as Exhibit Holcomb-13.) BY MS. GARBER: Q. I'm going to mark as Exhibit 13 a paper by Mills, et al. This is one that you reviewed, right?	10 11 12 13 14 15 16 17 18 19 20	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I explain why? BY MS. GARBER: Q. I don't I don't mean agree with the author. Do you agree with my assessment of what the authors are saying?
10 11 12 13 14 15 16 17 18 19 20 21	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for identification as Exhibit Holcomb-13.) BY MS. GARBER: Q. I'm going to mark as Exhibit 13 a paper by Mills, et al. This is one that you reviewed, right? A. Yes.	10 11 12 13 14 15 16 17 18 19 20 21	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I explain why? BY MS. GARBER: Q. I don't I don't mean agree with the author. Do you agree with my assessment of what the authors are saying? MS. CURRY: Object to the
10 11 12 13 14 15 16 17 18 19 20 21 22	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for identification as Exhibit Holcomb-13.) BY MS. GARBER: Q. I'm going to mark as Exhibit 13 a paper by Mills, et al. This is one that you reviewed, right? A. Yes. MS. GARBER: Sorry. I	10 11 12 13 14 15 16 17 18 19 20 21 22	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I explain why? BY MS. GARBER: Q. I don't I don't mean agree with the author. Do you agree with my assessment of what the authors are saying? MS. CURRY: Object to the form.
10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for identification as Exhibit Holcomb-13.) BY MS. GARBER: Q. I'm going to mark as Exhibit 13 a paper by Mills, et al. This is one that you reviewed, right? A. Yes. MS. GARBER: Sorry. I didn't I didn't make enough	10 11 12 13 14 15 16 17 18 19 20 21 22 23	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I explain why? BY MS. GARBER: Q. I don't I don't mean agree with the author. Do you agree with my assessment of what the authors are saying? MS. CURRY: Object to the form. THE WITNESS: That's true
10 11 12 13 14 15 16 17 18 19 20 21 22	A. Let me change the word from "proof" to "evidence." Q. Okay. Let's look at some studies. (Document marked for identification as Exhibit Holcomb-13.) BY MS. GARBER: Q. I'm going to mark as Exhibit 13 a paper by Mills, et al. This is one that you reviewed, right? A. Yes. MS. GARBER: Sorry. I	10 11 12 13 14 15 16 17 18 19 20 21 22	play because the use is habitual versus memorable. Do you agree? MS. CURRY: Object to the form. THE WITNESS: No. Can I explain why? BY MS. GARBER: Q. I don't I don't mean agree with the author. Do you agree with my assessment of what the authors are saying? MS. CURRY: Object to the form.

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	Page 258		Page 260
1	BY MS. GARBER:	1	form.
2	Q. Okay. And you disagree that	2	THE WITNESS: One, the first
3	recall bias is not at play because the	3	statement, "The recall bias is
4	use is habitual rather than memorable?	4	unlikely to be an important source
5	A. No.	5	of bias," is now referring to an
6	Q. You don't agree with that?	6	opinion of Narod. Narod's 2016, I
7	A. If I can explain my	7	told you was that not that
8	reasoning, or should I leave this at yes	8	wasn't based on data. So there's
9	or no?	9	an echo chamber thing.
10	Q. Just I don't need to know	10	And then the positive
11	why.	11	association is strongest for
12	A. You don't need to know why.	12	serous histologic type, if you
13	Q. No, I want to ask you a few	13	have a higher prevalence of a
14	more questions and then I'll circle back	14	type, you would expect recall bias
15	to that	15	to be more commonly seen with
16	A. Sure.	16	that, because when you have rarer,
17	Q because there are a few	17	smaller numbers, you may not reach
18	other papers that I want to get to before	18	an association high enough to show
19	we understand that.	19	the increased risk there.
20	Doctor, if you can go back	20	So it's not surprising to me
21	to the Health Canada, which we marked as	21	if there was going to be a
22	Exhibit 11. And if you could turn to	22	consistent cell type that you saw
23	Page 28. Under do you see where I am?	23	this increased risk with, it would
24	Under the 6.4, third paragraph down.	24	be with serous, because it is the
	Page 259		Page 261
1	Do you see where I am? It	1	predominate cell type.
2	says, "In studies?"	2	BY MS. GARBER:
3	A. 28. Yes. Yes. Okay.	3	Q. You disagree with the study
4	Q. It says, "In studies where	3 4 5 6 7	authors of Health Canada wherein they are
5	the exposure is simple, e.g., never	5	stating at Page 28, that recall bias is
6	versus ever use, recall bias is unlikely	6	not likely at play
7	to be an important source of bias." And	7	A. They are yeah, I'm sorry.
8	then it cites to Narod 2016.	8	Q not likely at play for
9	"The positive association is	8 9	the increased risk amongst the studies,
10	strongest for serous histologic type,"	10	correct?
11	and then it cites to Berge 2018 and Taher	11	A. I do because if they would
12	2018. "Findings that the association may	12	cite a study where they can show it
13	vary by histologic type detracts from the	13	wasn't at play. See, I can cite a study
14	hypothesis of report bias as this type of	14	where I believe it was at play when I
15	bias would likely operate for all	15	cite Schildkraut.
16	histologic types."	16	When they cite a study that
17	Did I read that correctly?	17	shows it's not at play, they cite an
18	A. You did.	18	opinion piece by Narod. There's a
19	Q. And so what the authors	19	difference.
20	there are saying is if recall bias was at	20	Q. Well, and they also cite the
21	play here, you would expect to see an	21	Berge and Taher papers, don't they?
22	increase in all of the histologic types,	22	A. For a different period
23	not just certain ones, correct?	23	for a different point.
24	MS. CURRY: Object to the	24	Q. Is there any metric,
1		1	

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	Page 262		Page 264
1	objective metric to measure recall bias	1	isn't it? I mean, how does a study
2	in a given study? In other words, for	2	author decide what is and what isn't
3	those who don't typically read	3	likely known?
4	epidemiological literature, there	4	A. Well, if you I think it's
5	there is not an objective measurement	5	a fair thing to ask. But if you have a
6	that can be	6	date where there's a big lawsuit, per
7	A. I can think of one.	7	se per se. And I bet you if you
8	MS. CURRY: Object to the	8	counted how many commercials you see on a
9	form.	9	topic, a liability topic, I bet you can
10	THE WITNESS: If you have a	10	come up with a clear point where you can
11	situation where there is a an	11	say before this time frame there was this
12	increase in familiarity with a	12	amount of activity on TV, and after this
13	topic that happens after a certain	13	time frame, it was that much. And and
14	time point and you look at the	14	yeah, that was a crude estimate to do it
15	association before and after this	15	with what date the the first cases are
16	is widely known and show that	16	becoming very well known.
17	there's a difference, I think that	17	But I disagree with the
18	that's a fair metric it puts	18	point that you can't approximate recall
19	the onus to figure out, well, why	19	bias. Because I I do think
20	all of a sudden after the time	20	Schildkraut's study was a good example of
21	that it's a well-known entity, why	21	it.
22	do more people remember using it	22	Q. The Schildkraut separated
23	who have cancer compared to the	23	the what was known from what was not
24	controls.	24	known based on a time frame of 2014,
	Page 263		Page 265
1	So if the controls have the	1	correct?
2	same memory of using it before	2	A. Right.
3	it's widely known as after it's	3	Q. And what was known, what was
4	widely known, but the cases, all	4	widely known in 2014 in your opinion?
5	of the sudden after it's widely	5	MC CLIDDY OL: 44 41
6	known the cases remember using,		MS. CURRY: Object to the
7	•	6	form.
	this habitual practice, all of the	7	form. THE WITNESS: Well, I don't
8	sudden goes up, after it's widely	<mark>7</mark> 8	form. THE WITNESS: Well, I don't think it was as widely known
8 9	sudden goes up, after it's widely known, I take that as a fair	7 8 9	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and
8 9 10	sudden goes up, after it's widely known, I take that as a fair metric of recall bias.	7 8 9 10	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being
8 9 10 11	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in	7 8 9 10 11	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian
8 9 10 11 12	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get	7 8 9 10 11 12	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer.
8 9 10 11 12 13	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding,	7 8 9 10 11 12 13	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption
8 9 10 11 12 13 14	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't.	7 8 9 10 11 12 13 14	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of
8 9 10 11 12 13 14 15	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to	7 8 9 10 11 12 13 14 15	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've
8 9 10 11 12 13 14 15 16	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not	7 8 9 10 11 12 13 14 15	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or
8 9 10 11 12 13 14 15 16 17	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data	7 8 9 10 11 12 13 14 15 16 17	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other
8 9 10 11 12 13 14 15 16 17	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of	7 8 9 10 11 12 13 14 15 16 17	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that
8 9 10 11 12 13 14 15 16 17 18	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of another plausible explanation for	7 8 9 10 11 12 13 14 15 16 17 18	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that the majority of people out there
8 9 10 11 12 13 14 15 16 17 18 19 20	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of another plausible explanation for what's at play other than recall	7 8 9 10 11 12 13 14 15 16 17 18 19 20	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that the majority of people out there who are going to be on these
8 9 10 11 12 13 14 15 16 17 18 19 20 21	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of another plausible explanation for what's at play other than recall bias using the metric I just	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that the majority of people out there who are going to be on these studies and answering these
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of another plausible explanation for what's at play other than recall bias using the metric I just described.	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that the majority of people out there who are going to be on these studies and answering these questionnaires, how are they going
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of another plausible explanation for what's at play other than recall bias using the metric I just described. BY MS. GARBER:	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that the majority of people out there who are going to be on these studies and answering these questionnaires, how are they going to find out about talc. It's most
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of another plausible explanation for what's at play other than recall bias using the metric I just described.	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that the majority of people out there who are going to be on these studies and answering these questionnaires, how are they going

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	Page 266		Page 268
1	lay media.	1	describing.
1 2 3 4 5	The lay media pipes up more	2	I believe it was at play in
3	when there is product liability	3	Schildkraut. And I don't believe
4	associated with it.	4	there is anything special about
5	BY MS. GARBER:	5	Schildkraut's study design that
6	Q. When	6	would make it at play in that
7	A. And so	7	study and not another one.
8	Q. When was that first time	8	BY MS. GARBER:
9	that there was lay media coverage of a	9	Q. Okay. Your opinion that
10	talc verdict or litigation?	10	there's recall bias at play in the
11	A. I don't think it's I	11	case-control studies is based on
12	can't give you the exact date where it	12	Schildkraut's study?
13	starts. I think you'd have to look, and	13	MS. CURRY: Object to the
14	split your studies up into an earlier	14	form.
15	period and a later period.	15	THE WITNESS: Not only.
16	But, if people who don't	16	BY MS. GARBER:
17	have ovarian cancer have the same	17	Q. What what other data do
18	recollection of talc usage before and	18	you have to support that claim?
19	after a certain point, but cases have a	19	A. A trend in the strength of
20	very different memory of using it before	20	association also increasing over time.
21	and after, I think that that's a very,	21	Q. Is that your opinion?
22	very powerful statement, and I would	22	A. Yes.
23	argue that you'd be challenged to come up	23	Q. That there is a trend of
24	with another reason why that would	24	increasing
	Page 267		Page 269
-			
1	happen, other than recall bias.	1	A. To be fair the term
2	happen, other than recall bias. Q. Are you aware of	1 2	A. To be fair the term "trend"
2	Q. Are you aware of	2	"trend"
2 3	Q. Are you aware of peer-reviewed study authors that state in	2 3	"trend" Q risk over time?
2 3 4	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder	2 3 4	"trend" Q risk over time? A. I'm sorry.
2 3 4 5	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say	2 3 4 5	"trend" Q risk over time? A. I'm sorry. Q. Sorry.
2 3 4 5 6	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard	2 3 4 5 6	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is
2 3 4 5 6 7 8	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form.	2 3 4 5 6 7 8 9	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test.
2 3 4 5 6 7 8 9	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not	2 3 4 5 6 7 8 9	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later
2 3 4 5 6 7 8 9 10	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you	2 3 4 5 6 7 8 9 10 11	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase.
2 3 4 5 6 7 8 9 10 11 12	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not	2 3 4 5 6 7 8 9 10 11	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later
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2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where	2 3 4 5 6 7 8 9 10 11 12 13	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and	2 3 4 5 6 7 8 9 10 11 12 13 14 15	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and explaining why, I would be curious to hear the opinion of somebody like Narod who says I don't believe it's at play. And if your only	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do A. Let me go back. Q does it show an increase over time? A. Let me go back one second. Q. It's Exhibit 9.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and explaining why, I would be curious to hear the opinion of somebody like Narod who says I don't believe it's at play. And if your only justification for the statement is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do A. Let me go back. Q does it show an increase over time? A. Let me go back one second. Q. It's Exhibit 9. A. I'd have to take the time to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and explaining why, I would be curious to hear the opinion of somebody like Narod who says I don't believe it's at play. And if your only justification for the statement is that I believe it's habitual	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do A. Let me go back. Q does it show an increase over time? A. Let me go back one second. Q. It's Exhibit 9. A. I'd have to take the time to look through all the odds ratios, but one
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and explaining why, I would be curious to hear the opinion of somebody like Narod who says I don't believe it's at play. And if your only justification for the statement is that I believe it's habitual versus memorable, that is less	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do A. Let me go back. Q does it show an increase over time? A. Let me go back one second. Q. It's Exhibit 9. A. I'd have to take the time to look through all the odds ratios, but one of the reasons why I color-coded it was I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and explaining why, I would be curious to hear the opinion of somebody like Narod who says I don't believe it's at play. And if your only justification for the statement is that I believe it's habitual	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do A. Let me go back. Q does it show an increase over time? A. Let me go back one second. Q. It's Exhibit 9. A. I'd have to take the time to look through all the odds ratios, but one

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	Page 270		Page 272
1	there's more blue which are	1	case-control studies. It could have been
2	nonsignificant studies	2	a problem had there been widespread
3	Q. Well	3	publicity about the possible association
4	A in the beginning	4	between use of body powder and cancer.
5	Q. Well, Doctor	5	The IARC" shortened that "working
6	A and these these are	6	group considers that there has not been
7	in in chronological order.	7	widespread public concern about the issue
8	Q. Let's just look at the at	8	and, therefore, considers it unlikely
9	the white ones.	9	that such a bias could explain the
10	The odds ratios don't seem	10	consistent findings."
11	to be increasing over time appreciably,	11	Did I read that correctly?
12	do they?	12	A. You did. And you're talking
13	A. Not to my naked eye, no.	13	about one type of recall bias. The
14	Q. Okay.	14	authors go on to say that's not the only
15	A. Just the frequency of	15	type of recall bias that we have to
16	positive studies.	16	consider. And in fact just recall bias
17	Q. And we're going to get to	17	in cancer patients remembering exposures
18	the meta-analysis shortly. But the	18	at a higher rate cannot be ruled out.
19	meta-analysis shortly. But the meta-analyses over time. How many	19	Q. Doctor, you can't say to a
20	meta-analyses over time. How many meta-analyses are there, by the way?	20	medical degree of probability that there
21	A. There's probably about	21	is recall bias that explain the
22	seven. Maybe more.	22	statistically significant increased risk
23	Q. And do you, off the top of	23	in the case-control studies, can you?
24	your head, do you have a general sense of	24	MS. CURRY: Object to the
	your nead, do you have a general sense of		
	Page 271		Page 273
1	Page 271 what those odds ratios are?	1	form.
2		1 2	form. THE WITNESS: No.
	what those odds ratios are? A. Yes. I believe they're in the same modest range as the studies that	1 2 3	form.
2	what those odds ratios are? A. Yes. I believe they're in	4	form. THE WITNESS: No.
2 3	what those odds ratios are? A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region.		form. THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four
2 3 4 5 6	what those odds ratios are? A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper,	4	form. THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study
2 3 4 5 6 7	what those odds ratios are? A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as	4 5 6 7	form. THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors
2 3 4 5 6 7 8	what those odds ratios are? A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right?	4 5 6 7 8	form. THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not
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2 3 4 5 6 7 8 9 10	what those odds ratios are? A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit	4 5 6 7 8 9 10	form. THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No.
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2 3 4 5 6 7 8 9 10 11 12 13 14	what those odds ratios are? A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to page	4 5 6 7 8 9 10 11 12 13 14	form. THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study
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69 (Pages 270 to 273)

	Page 274		Page 276
1	Holcomb-15.)	1	once.
2	BY MS. GARBER:	2	MS. CURRY: Where are you?
3	Q. I'm going to mark it as 15.	3	MS. GARBER: Right here.
4	Doctor, in your expert report at Page 9,	4	THE WITNESS: Yes, I found
5	you indicate that, "Recall bias can lead	5	it.
6	to spurious results in case-control	6	BY MS. GARBER:
7	studies in a variety"	7	Q. "Although our findings
8	A. I'm sorry. Which page were	8	suggest that the publicity of class
9	you reading from?	9	action lawsuits may have resulted in
10	Q. Page 9. You indicate that,	10	increased reporting of body powder use,
11	"Recall bias can lead to spurious results	11	our data do not support that recall bias
12	in case-control studies in a variety	12	alone before 2014 versus" "before 2014
13	of"	13	versus 2014 or later would account for
14	A. I'm sorry. I'm still trying	14	the associations with body powder use and
15	to find out where we are. I don't	15	epithelial ovarian cancer."
16	think	16	Did I read that correctly?
17	Q. I'm just	17	A. Yes, you did.
18	A. One second.	18	Q. So you didn't cite that in
19	Q. I'm just reading.	19	your expert report, did you?
20	A. I know. I just want to read	20	A. I maybe I'm
21	along, if it's okay.	21	misunderstanding what they are saying
22	Yes, I'm ready for you.	22	here. But they're saying maybe it's not
23	Q. I'll try it again. You	23	just not that alone. They're saying that
24	indicate that, "Recall bias can lead to	24	there could be other things that cause
	marcute that, Recall olds call lead to		there could be other things that cause
	Page 275		Page 277
1	spurious results in case-control studies	1	recall bias. And they're saying
2	in a variety of clinical scenarios." And	2	they're not discounting that that played
3	then you cite to the Schildkraut 2016	3	a role. They're saying there could be
4	paper, correct?	4	other things, and they are pretty much
5	A. Right.	5	saying the same thing that I read before
6	Q. All right. And	6	where they said there's other causes of
7	A. Hold on. Is that	7	recall bias other than just information
8	Schildkraut that I'm let me see. 33,	8	out in the media.
9	yes.	9	Possibly there were multiple
10	Q. What you didn't cite to is	10	things at play that caused recall bias.
11	that the is what the authors stated	11	But that statement, they're not saying
12	about the class action publicity. And so	12	there was no recall bias in the study.
13	if I can have you turn to Page 1416 of	13	They're just saying that it may be more
14	the Schildkraut paper.	14	than just than just the lawsuits.
15	And so if you go to the	15	Q. That's your interpretation
16	right-hand column, in the first paragraph	16	of what they are saying?
17	about halfway down with the sentence that	17	A. Well, it says
	begins "although."	18	MS. CURRY: Object to the
18	cegins annough.	I	•
	Do you see where I am?	19	form.
18		19 20	form. THE WITNESS: it says,
18 19	Do you see where I am?	1	THE WITNESS: it says,
18 19 20	Do you see where I am? A. Yes.	20	
18 19 20 21	Do you see where I am? A. Yes. Q. It says, "Although our	20 21	THE WITNESS: it says, "The data do not support the
18 19 20 21 22	Do you see where I am? A. Yes. Q. It says, "Although our findings"	20 21 22	THE WITNESS: it says, "The data do not support the recall bias alone before 2014

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Kevin Holcomb, M.D.

	Page 278		Page 280
1	didn't say that it didn't.	1	They then design an experiment to see if
2	They're just saying possibly	2	they could show a difference, and guess
3	there's other things.	3	what? The findings show exactly that.
4	Yes, that's my	4	That controls have the same level of
5	interpretation.	5	memory of exposure but the cases all of
6	BY MS. GARBER:	6	the sudden jump up after 2014.
7	Q. You don't know what the	7	If you do an experiment
8	other things are, do you?	8	because you have a hypothesis, and your
9	• •	9	experiment then proves the hypothesis,
10	J	10	1
11	saying they're not discounting recall	11	you should reasonably say, this is why I did it. I found what I found. I have
	bias. They're just saying there may be		
12	multiple sources.	12	evidence of recall bias. That's the
13	Q. There was no widespread	13	whole point why they did this experiment.
14	publicity about tale and ovarian cancer	14	Q. Did the Schildkraut authors
15	in the lay media in 2014, was there?	15	find a statistically significant finding
16	MS. CURRY: Object to the	16	between genital powder use and epithelial
17	form.	17	ovarian cancer?
18	THE WITNESS: Then why did	18	A. Yes. What I found
19	Schildkraut decide to make that	19	interesting about
20	analysis? They made that analysis	20	Q. Doctor, I didn't
21	specifically because of the	21	A. I won't editorialize. I
22	lawsuits.	22	won't sorry.
23	BY MS. GARBER:	23	Q. I appreciate that.
24	Q. You're making that	24	A. Sure.
			Dago 201
	rage 279		
1		1	Page 281
1	assumption, aren't you?	1	Q. At Page 8, Figure 1 of your
2	assumption, aren't you? MS. CURRY: Object to the	2	Q. At Page 8, Figure 1 of your expert report, if we can turn there.
2 3	assumption, aren't you? MS. CURRY: Object to the form.	2 3	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there?
2 3 4	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They	2 3 4	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am.
2 3 4 5	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and	2 3 4 5	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram
2 3 4 5 6	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and methods, why they split at 2014.	2 3 4 5 6	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram regarding the levels of evidence; is that
2 3 4 5 6 7	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and methods, why they split at 2014. BY MS. GARBER:	2 3 4 5 6 7	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram regarding the levels of evidence; is that right?
2 3 4 5 6 7 8	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and methods, why they split at 2014. BY MS. GARBER: Q. Do you know	2 3 4 5 6 7 8	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram regarding the levels of evidence; is that right? A. Yes.
2 3 4 5 6 7 8	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and methods, why they split at 2014. BY MS. GARBER: Q. Do you know A. They didn't just routinely	2 3 4 5 6 7 8	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram regarding the levels of evidence; is that right? A. Yes. Q. I'll publish it on the Elmo.
2 3 4 5 6 7 8 9	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and methods, why they split at 2014. BY MS. GARBER: Q. Do you know A. They didn't just routinely pick that up.	2 3 4 5 6 7 8 9	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram regarding the levels of evidence; is that right? A. Yes. Q. I'll publish it on the Elmo. This is your diagram for the levels of
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2 3 4 5 6 7 8 9 10 11 12	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and methods, why they split at 2014. BY MS. GARBER: Q. Do you know A. They didn't just routinely pick that up. Q. I understand that, Doctor. A. Right.	2 3 4 5 6 7 8 9 10 11 12	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram regarding the levels of evidence; is that right? A. Yes. Q. I'll publish it on the Elmo. This is your diagram for the levels of evidence, correct? A. It's not my diagram.
2 3 4 5 6 7 8 9 10 11 12 13	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and methods, why they split at 2014. BY MS. GARBER: Q. Do you know A. They didn't just routinely pick that up. Q. I understand that, Doctor. A. Right. Q. But authors can make	2 3 4 5 6 7 8 9 10 11 12 13	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram regarding the levels of evidence; is that right? A. Yes. Q. I'll publish it on the Elmo. This is your diagram for the levels of evidence, correct? A. It's not my diagram. Q. In fact, it's the levels of
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and methods, why they split at 2014. BY MS. GARBER: Q. Do you know A. They didn't just routinely pick that up. Q. I understand that, Doctor. A. Right. Q. But authors can make mistakes, can't they? A. I've been pointing out a lot of them. Q. Okay. You didn't point out this one, did you?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram regarding the levels of evidence; is that right? A. Yes. Q. I'll publish it on the Elmo. This is your diagram for the levels of evidence, correct? A. It's not my diagram. Q. In fact, it's the levels of evidence for the Center For Evidence-Based Medicine, or the CEBMA, correct? A. Management, yes. Q. And what is that a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and methods, why they split at 2014. BY MS. GARBER: Q. Do you know A. They didn't just routinely pick that up. Q. I understand that, Doctor. A. Right. Q. But authors can make mistakes, can't they? A. I've been pointing out a lot of them. Q. Okay. You didn't point out	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram regarding the levels of evidence; is that right? A. Yes. Q. I'll publish it on the Elmo. This is your diagram for the levels of evidence, correct? A. It's not my diagram. Q. In fact, it's the levels of evidence for the Center For Evidence-Based Medicine, or the CEBMA, correct? A. Management, yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	assumption, aren't you? MS. CURRY: Object to the form. THE WITNESS: No. They they say in the materials and methods, why they split at 2014. BY MS. GARBER: Q. Do you know A. They didn't just routinely pick that up. Q. I understand that, Doctor. A. Right. Q. But authors can make mistakes, can't they? A. I've been pointing out a lot of them. Q. Okay. You didn't point out this one, did you? A. Which mistake? Q. Well, do you know if there	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. At Page 8, Figure 1 of your expert report, if we can turn there. Are you there? A. I am. Q. Here you have a diagram regarding the levels of evidence; is that right? A. Yes. Q. I'll publish it on the Elmo. This is your diagram for the levels of evidence, correct? A. It's not my diagram. Q. In fact, it's the levels of evidence for the Center For Evidence-Based Medicine, or the CEBMA, correct? A. Management, yes. Q. And what is that a medical site or is that a business site? A. I'm not sure.
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	Page 282		Page 284
1	believe is a widely held hierarchy on the	1	this.
2	strengths of different study types based	I	This is how I was this is
3	on their ability to be altered by	3	how I was trained. I mean, this I'm
2 3 4 5 6	inaccuracies. And this was the diagram	2 3 4 5 6 7 8	looking for there are some things that
5	that I found that I thought showed it the	5	I learned in reviewing for the for
6	best.	6	this deposition. And there are certain
7	Q. Did you just look to find a	7	beliefs that I've long held because I was
8	diagram where cohorts were above	8	trained that way. I was forced well,
9	case-control studies, is that how you	9	not forced. I was happily taking a
10	searched?	10	graduate level statistics course as part
11	MS. CURRY: Object object	11	of my fellowship. And I was taught this
12	to the form.	12	then too. And that was part of a medical
13	THE WITNESS: If you search	13	statistics course.
14	under levels of evidence, you will	14	So this is just consistent
15	never find well, I may not say	15	with what I already knew.
16	never. Who knows.	16	Q. Where do meta-analyses fall
17	I I don't think you	17	on your pyramid?
18	will you have to search hard to	18	A. You know, the reason why
19	find a a figure that has cohort	19	meta-analyses aren't on these is because
20	studies above case-control	20	meta-analysis is a somewhat controversial
21	studies.	21	practice. They there are some
22	BY MS. GARBER:	22	strengths to meta-analysis. There are
23	Q. Okay. So what you said is	23	some ways that meta-analyses can help.
24	if you search under levels of evidence,	24	But you have to really, really conduct
	Page 283		Page 285
1	you will never find I mean I mean I	1	them in a strict format and not break the
2	may not say never. Who knows. You have	2	rules. So you can have a meta-analysis
3	to search hard to find a figure that has	3	that's well you know, very well
4	cohorts above case-control studies.	4	controlled, and look for heterogeneity
5	Is that your testimony?	5	and did all the things that you have to
6	A. I'm sorry. It's below.	6	do, that would be a strong study. But
7	Sorry. The other way around. Thank you.	7	it's so fraught with the ability to make
8	Q. Thanks for that.	8	it a poor study. So it's hard to put it
9	Did you attempt to find a	9	on here. Because there is no one
10	medical website or an evidence-based	10	meta-analysis that's going to be
11	medical website as to the levels of	11	positive. It's going to be a good study.
12	evidence?	12	Q. What what is your basis
13	MS. CURRY: Object to the	13	to say that that meta-analyses are
14	form.	14	controversial?
14 15	form. BY MS. GARBER:	14 15	controversial? A. Let me go through. I I
14 15 16	form. BY MS. GARBER: Q. Or did you find this one and	14 15 16	controversial? A. Let me go through. I I thought I had actually given a citation
14 15 16 17	form. BY MS. GARBER: Q. Or did you find this one and stop?	14 15 16 17	controversial? A. Let me go through. I I thought I had actually given a citation for it when I said because I believe I
14 15 16 17 18	form. BY MS. GARBER: Q. Or did you find this one and stop? A. I I don't I don't	14 15 16 17 18	controversial? A. Let me go through. I I thought I had actually given a citation for it when I said because I believe I made that statement in here as well.
14 15 16 17 18	form. BY MS. GARBER: Q. Or did you find this one and stop? A. I I don't I don't think that whether statistics don't	14 15 16 17 18 19	controversial? A. Let me go through. I I thought I had actually given a citation for it when I said because I believe I made that statement in here as well. You know, I didn't cite to
14 15 16 17 18 19 20	form. BY MS. GARBER: Q. Or did you find this one and stop? A. I I don't I don't think that whether statistics don't alter from one practice to the other.	14 15 16 17 18 19 20	controversial? A. Let me go through. I I thought I had actually given a citation for it when I said because I believe I made that statement in here as well. You know, I didn't cite to a to an exact paper.
14 15 16 17 18 19 20 21	form. BY MS. GARBER: Q. Or did you find this one and stop? A. I I don't I don't think that whether statistics don't alter from one practice to the other. Weaknesses in a study design are built in	14 15 16 17 18 19 20 21	controversial? A. Let me go through. I I thought I had actually given a citation for it when I said because I believe I made that statement in here as well. You know, I didn't cite to a to an exact paper. Q. So that's the opinion of
14 15 16 17 18 19 20 21	form. BY MS. GARBER: Q. Or did you find this one and stop? A. I I don't I don't think that whether statistics don't alter from one practice to the other. Weaknesses in a study design are built in and baked in. And so no, I didn't look	14 15 16 17 18 19 20 21 22	controversial? A. Let me go through. I I thought I had actually given a citation for it when I said because I believe I made that statement in here as well. You know, I didn't cite to a to an exact paper. Q. So that's the opinion of Dr. Holcomb
14 15 16 17 18 19 20 21 22 23	form. BY MS. GARBER: Q. Or did you find this one and stop? A. I I don't I don't think that whether statistics don't alter from one practice to the other. Weaknesses in a study design are built in and baked in. And so no, I didn't look for a specific medical website, because I	14 15 16 17 18 19 20 21 22 23	controversial? A. Let me go through. I I thought I had actually given a citation for it when I said because I believe I made that statement in here as well. You know, I didn't cite to a to an exact paper. Q. So that's the opinion of Dr. Holcomb A. No, I wish I had cited it,
14 15 16 17 18 19 20 21 22	form. BY MS. GARBER: Q. Or did you find this one and stop? A. I I don't I don't think that whether statistics don't alter from one practice to the other. Weaknesses in a study design are built in and baked in. And so no, I didn't look	14 15 16 17 18 19 20 21 22	controversial? A. Let me go through. I I thought I had actually given a citation for it when I said because I believe I made that statement in here as well. You know, I didn't cite to a to an exact paper. Q. So that's the opinion of Dr. Holcomb

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	Page 286		Page 288
1	study designs. Not just for this. And	1	form.
2	that is, if given the the time, I	2	THE WITNESS: No. As I
3	could find a citation that makes the same	3	stated before, I would have to
4	statement. It's not just my opinion.	4	search and find you one.
5	Q. But there's not one in your	5	BY MS. GARBER:
6	report?	6	Q. Did you know that Kenneth
7	A. There's not one in my	7	Rothman is known for his work on teaching
8	report, no.	8	about epidemiologic research methodology?
9	Q. You can't think of one	9	MS. CURRY: Object to the
10	either, can you?	10	form.
11	A. No, I would have to do a	11	BY MS. GARBER:
12	search.	12	Q. Were you aware of that?
13	Q. So when you had your	13	A. Given the fact that I
14	statistics class, what was your text, do	14	I've already answered that I wasn't aware
15	you remember?	15	who he is, I don't see how I would know
16	MS. CURRY: Object to the	16	that.
17	form.	17	Q. Do you ever rely on
18	THE WITNESS: I don't.	18	meta-analyses in your practice to make
19	BY MS. GARBER:	19	clinical decisions, do you ever look at
20	Q. And I asked you this before,	20	epidemiological data and set your care
21	if you knew who Kenneth Rothman was in	21	attendant to the results or are they just
22	the context of epidemiology. And you did	22	worthwhile in your opinion?
23	not, correct?	23	MS. CURRY: Object to the
24	A. That's correct.	24	form.
	Page 287		Page 289
1	Q. So I'll represent to you	1	THE WITNESS: No, no,
2	that he is a professor of epidemiology,	2	they're worthwhile but they we
3	an author of textbooks and many published	3	don't I've never made any
4	articles regarding epidemiology. Okay?	4	clinical decisions on care based
5	I'll also show you that he	5	on one study. It's it's
6	is the study author of this widely used	6	meta-analysis will become part of
7	text with regard to epidemiology. You	7	the totality of what I'm looking
8	see that Kenneth Rothman is the first	8	at.
9	author, Sander Greenland is the second.	9	BY MS. GARBER:
10	And that goes back to that paper on	10	Q. Meta-analysis is looking at
11	statistical significance. That's the	11	a systematic review of a body of
12	author, right?	12	literature, correct?
13	You are not familiar with	13	A. Meta-analysis is taking
14	those authors or this text; is that	14	subjects that were in different places
15	correct?	15	and different times and mixing them up as
		16	if they were all in the same place at the
16	A. Or the fact that it's widely		
16 17	used, no.	17	same time under the same conditions,
16 17 18	used, no. Q. Okay. You've never read a	17 18	same time under the same conditions, hence it's fraught with potential issues.
16 17 18 19	used, no. Q. Okay. You've never read a book with regard to meta-analyses and the	17 18 19	same time under the same conditions, hence it's fraught with potential issues. Q. There's utility to them,
16 17 18 19 20	used, no. Q. Okay. You've never read a book with regard to meta-analyses and the utility of them strike that.	17 18 19 20	same time under the same conditions, hence it's fraught with potential issues. Q. There's utility to them, isn't there?
16 17 18 19 20 21	used, no. Q. Okay. You've never read a book with regard to meta-analyses and the utility of them strike that. Can you name a text with	17 18 19 20 21	same time under the same conditions, hence it's fraught with potential issues. Q. There's utility to them, isn't there? MS. CURRY: Object to the
16 17 18 19 20 21	used, no. Q. Okay. You've never read a book with regard to meta-analyses and the utility of them strike that. Can you name a text with regard to meta-analyses and the utility	17 18 19 20 21 22	same time under the same conditions, hence it's fraught with potential issues. Q. There's utility to them, isn't there? MS. CURRY: Object to the form.
16 17 18 19 20 21	used, no. Q. Okay. You've never read a book with regard to meta-analyses and the utility of them strike that. Can you name a text with	17 18 19 20 21	same time under the same conditions, hence it's fraught with potential issues. Q. There's utility to them, isn't there? MS. CURRY: Object to the

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	Page 290		Page 292
1	BY MS. GARBER:	1	the bias? I don't can't think of a
2	Q. What are what is the	2	source. I know it's not I know even
3	utility of them?	3	some of your experts don't don't
4	A. For example, if you had	4	refute that. Ellen Blair Smith says as
5	this question of do you have enough	5	much in her in her expert report. She
6	numbers in your cohort studies to	6	agrees that that's the case.
7	approximate an effect size that you see	7	Q. Does she say there's no
8	in your case-control studies, well, you	8	utility to the meta-analyses because of
9	might be able to do that in a	9	bias?
10	meta-analysis. You might be able to put	10	A. I didn't I didn't say
11	all these things together.	11	that. If you're asking me about the
12	And Berge says when we put	12	statement, I can tell you that I can find
13	everything together, we felt we had	13	support of that statement by some of the
14	99 percent chance of finding the effect	14	plaintiff experts.
15	size in the case-control size when we put	15	Q. Let's look at a paper by Ken
16	all the people together from the three	16	Rothman.
17	cohort studies that Berge put together.	17	(Document marked for
18	So that's an example where	18	identification as Exhibit
19	it might be helpful. If you think you	19	Holcomb-16.)
20	can put together studies that are biased	20	BY MS. GARBER:
21	for example, and that if you mix them	21	Q. I'm going to mark as
22	altogether the bias will be diluted,	22	Exhibit 16 a paper titled "Six Persistent
23	that's where it's not helpful.	23	Research Misconceptions" by Kenneth
24	Q. Do you have a source to cite	24	Rothman. You've not seen that paper
	Page 291		Page 293
1	that when you put cohort studies	1	before?
			before?
2		2	A. No.
2 3	together, that the bias will affect the		A. No.
	together, that the bias will affect the results of a meta-analysis?	2	A. No.
3	together, that the bias will affect the	2	A. No.Q. Doctor, if you look at the
3 4	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the	2 3 4	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's
3 4 5	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form.	2 3 4 5	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do.
3 4 5 6	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't	2 3 4 5 6	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am?
3 4 5 6 7	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement.	2 3 4 5 6 7	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do.
3 4 5 6 7 8	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement. BY MS. GARBER:	2 3 4 5 6 7 8	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do. Q. It reads, "Scientific
3 4 5 6 7 8 9	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement. BY MS. GARBER: Q. Do you have a source for	2 3 4 5 6 7 8 9	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do. Q. It reads, "Scientific knowledge changes rapidly, but the
3 4 5 6 7 8 9	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement. BY MS. GARBER: Q. Do you have a source for that?	2 3 4 5 6 7 8 9	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do. Q. It reads, "Scientific knowledge changes rapidly, but the concepts and methods of conduct of research change more slowly. To stimulate discussion of outmoded thinking
3 4 5 6 7 8 9 10	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement. BY MS. GARBER: Q. Do you have a source for that? A. I didn't say that. So why	2 3 4 5 6 7 8 9 10	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do. Q. It reads, "Scientific knowledge changes rapidly, but the concepts and methods of conduct of research change more slowly. To
3 4 5 6 7 8 9 10 11	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement. BY MS. GARBER: Q. Do you have a source for that? A. I didn't say that. So why would I have a source?	2 3 4 5 6 7 8 9 10 11 12	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do. Q. It reads, "Scientific knowledge changes rapidly, but the concepts and methods of conduct of research change more slowly. To stimulate discussion of outmoded thinking
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3 4 5 6 7 8 9 10 11 12 13 14	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement. BY MS. GARBER: Q. Do you have a source for that? A. I didn't say that. So why would I have a source? Q. Do you have a source for what you just said?	2 3 4 5 6 7 8 9 10 11 12 13 14	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do. Q. It reads, "Scientific knowledge changes rapidly, but the concepts and methods of conduct of research change more slowly. To stimulate discussion of outmoded thinking regarding the conduct of research, I list six misconceptions about research that
3 4 5 6 7 8 9 10 11 12 13 14	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement. BY MS. GARBER: Q. Do you have a source for that? A. I didn't say that. So why would I have a source? Q. Do you have a source for what you just said? A. Please repeat it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do. Q. It reads, "Scientific knowledge changes rapidly, but the concepts and methods of conduct of research change more slowly. To stimulate discussion of outmoded thinking regarding the conduct of research, I list six misconceptions about research that persist long after their flaws become
3 4 5 6 7 8 9 10 11 12 13 14 15	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement. BY MS. GARBER: Q. Do you have a source for that? A. I didn't say that. So why would I have a source? Q. Do you have a source for what you just said? A. Please repeat it. Q. You said, "If you think you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do. Q. It reads, "Scientific knowledge changes rapidly, but the concepts and methods of conduct of research change more slowly. To stimulate discussion of outmoded thinking regarding the conduct of research, I list six misconceptions about research that persist long after their flaws become apparent.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement. BY MS. GARBER: Q. Do you have a source for that? A. I didn't say that. So why would I have a source? Q. Do you have a source for what you just said? A. Please repeat it. Q. You said, "If you think you can put together studies that are biased, for example, and that if you mix them together, although the bias will be diluted, that's where it's not helpful." What is your source for that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do. Q. It reads, "Scientific knowledge changes rapidly, but the concepts and methods of conduct of research change more slowly. To stimulate discussion of outmoded thinking regarding the conduct of research, I list six misconceptions about research that persist long after their flaws become apparent. "These misconceptions are: "Number one, the hierarchy" I'm sorry. "Number one, there is a hierarchy of study designs. Randomized
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	together, that the bias will affect the results of a meta-analysis? MS. CURRY: Object to the form. THE WITNESS: I didn't that wasn't my statement. BY MS. GARBER: Q. Do you have a source for that? A. I didn't say that. So why would I have a source? Q. Do you have a source for what you just said? A. Please repeat it. Q. You said, "If you think you can put together studies that are biased, for example, and that if you mix them together, although the bias will be diluted, that's where it's not helpful." What is your source for that statement?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No. Q. Doctor, if you look at the left-hand column, do you see here that's illuminated or highlighted? Do you see where I am? A. Yes, I do. Q. It reads, "Scientific knowledge changes rapidly, but the concepts and methods of conduct of research change more slowly. To stimulate discussion of outmoded thinking regarding the conduct of research, I list six misconceptions about research that persist long after their flaws become apparent. "These misconceptions are: "Number one, the hierarchy" I'm sorry. "Number one, there is a hierarchy of study designs. Randomized trials provide the greatest validity

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1 1 1 1 1 2	Page 296
1 reliable." 1 Q.	. Is that what he's saying?
2 So Dr. Rothman is indicating 2	MS. CURRY: Object to the
	rm.
4 is a hierarchy which ranks cohort studies 4	THE WITNESS: Yes, yes.
	S. GARBER:
	. Okay. Thank you. That's
	ly question that I had.
8 A. Yes. He's admitting that 8	He's also saying, number
	"If a term that denotes the
<u> </u>	et of two factors is a regression
	" "is a regression model is not
	cally significant, then there is
	logic interaction between those
14 a common thought, right? He's saying 14 factors	
15 there's a hierarchy. The misconceptions 15	So again, he is attempting
	unk this notion of holding at
	ate statistically significant from
	tistically significant data,
19 that there is and it's a commonly taught 19 correct	
20 thing. 20	MS. CURRY: Object to the
	rm.
	S. GARBER:
	. That's a misconception?
24 convention. And I would have to read the 24	THE WITNESS: I'm just
Page 295	Page 297
	rious. Are you here are you
	ore interested in me agreeing
	at you're reading this correctly
	my response to it? Because I'd
	ve to jump in and tell you about
	nat I think about these
	tements. But I feel like I'm
	t being given an opportunity.
	nd I you know, I could have
	me down and read all the papers
	at you want to read and read
	em out loud for you.
13 trying to debunk that because he doesn't 13	But I'm assuming that you
	ould like to know if I agree with
	why not if I disagree.
16 form. 16	But I feel like you keep on
	king me, is that did I read
1 I V +lac	at correctly, and I said yes,
	u read very well. And you say
19 THE WITNESS: Can I tell you 19 yo	· · · · · · · · · · · · · · · · · · ·
19 THE WITNESS: Can I tell you 19 you 20 that there's 20 do	you agree with it? And I say
19 THE WITNESS: Can I tell you 19 you 20 that there's 20 do 21 BY MS. GARBER: 21 no	you agree with it? And I say
19 THE WITNESS: Can I tell you 19 yo 20 that there's 20 do 21 BY MS. GARBER: 21 no 22 Q. Doctor 22	you agree with it? And I say . And then I go to try to
19 THE WITNESS: Can I tell you 19 yo 20 that there's 20 do 21 BY MS. GARBER: 21 no 22 Q. Doctor 22 23 A not as much difference in 23 exp	you agree with it? And I say

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	Page 298		Page 300
1	purpose of that?	1	that's what he's doing. I don't know the
2	BY MS. GARBER:	2	author.
3	Q. Are you done?	3	But to suggest that
4	A. Yes, I am.	4	something's published and ergo it's
5	Q. Okay. You know that I am	5	worthwhile, that's a big misconception.
6	here to ask you questions, and you're	6	Q. All right. And otherwise
7	here to answer questions. You also know	7	you agree with what I just said, if we
8	that this is in the context of a	8	if we amend my question to say it is a
9	cross-examination and your counsel has	9	published article
10	the opportunity to ask you questions too.	10	A. Can you repeat it because I
11	You understand that, right?	11	got so stuck on your mentioning that it
12	A. I understand.	12	was peer-reviewed that I didn't
13	Q. Thanks.	13	Q. I'll just move on.
14	All right. So Dr. Rothman	14	A I stopped listening.
15	in his peer-reviewed and published paper	15	Q. Did you attempt to look at
16	indicates that there is a misconception	16	what your institution said about study
17	about the hierarchy, which places cohorts	17	hierarchies?
18	above case-control. And this is a	18	MS. CURRY: Object to the
19	misconception about statistical	19	form.
20	significance and calling nonstatistically	20	THE WITNESS: My
21	results different from statistical	21	institution? Which institution?
22	significant results.	22	BY MS. GARBER:
23	Can we agree with that?	23	Q. Where do you work? Where do
24	MS. CURRY: Object to the	24	you work?
	Page 299		Page 301
1		1	
1 2	form.	1 2	A. I work in two I'm
2	form. THE WITNESS: No.		A. I work in two I'm actually an employee of Weill Cornell
2 3	form. THE WITNESS: No. BY MS. GARBER:		A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I
2 3 4	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that?		A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your
2 3 4 5	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that? A. Because you started off the		A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your institution, right?
2 3 4 5 6	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that? A. Because you started off the statement by saying this is	2 3 4 5 6	A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your institution, right? A. As is New York Presbyterian
2 3 4 5 6 7	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that? A. Because you started off the statement by saying this is peer-reviewed. This is a review article.	2 3 4 5 6 7	A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your institution, right? A. As is New York Presbyterian Hospital, which is separate, so which
2 3 4 5 6 7 8	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that? A. Because you started off the statement by saying this is peer-reviewed. This is a review article. I don't know if it's peer-reviewed.	2 3 4 5 6 7 8	A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your institution, right? A. As is New York Presbyterian Hospital, which is separate, so which institution
2 3 4 5 6 7	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that? A. Because you started off the statement by saying this is peer-reviewed. This is a review article. I don't know if it's peer-reviewed. Q. It's a published article?	2 3 4 5 6 7	A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your institution, right? A. As is New York Presbyterian Hospital, which is separate, so which institution Q. You have privileges at both?
2 3 4 5 6 7 8 9	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that? A. Because you started off the statement by saying this is peer-reviewed. This is a review article. I don't know if it's peer-reviewed. Q. It's a published article? A. It's not peer-reviewed	2 3 4 5 6 7 8 9	A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your institution, right? A. As is New York Presbyterian Hospital, which is separate, so which institution Q. You have privileges at both?
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2 3 4 5 6 7 8 9 10	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that? A. Because you started off the statement by saying this is peer-reviewed. This is a review article. I don't know if it's peer-reviewed. Q. It's a published article? A. It's not peer-reviewed necessarily. Q. But it's a published?	2 3 4 5 6 7 8 9	A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your institution, right? A. As is New York Presbyterian Hospital, which is separate, so which institution Q. You have privileges at both? A. I don't have privileges in the medical school because that's not our
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that? A. Because you started off the statement by saying this is peer-reviewed. This is a review article. I don't know if it's peer-reviewed. Q. It's a published article? A. It's not peer-reviewed necessarily. Q. But it's a published? A. You said peer-reviewed. Q. I know. A. I'm saying, do you know that it was peer reviewed? Q. Now I'm saying, it's a published article, right? A. Simple yeah, you can	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your institution, right? A. As is New York Presbyterian Hospital, which is separate, so which institution Q. You have privileges at both? A. I don't have privileges in the medical school because that's not our medical school's work. So, no, I don't have privileges Q. You don't have privileges in in the hospital associated A. The hospital is is owned by New York Presbyterian Hospital. Q. Okay.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that? A. Because you started off the statement by saying this is peer-reviewed. This is a review article. I don't know if it's peer-reviewed. Q. It's a published article? A. It's not peer-reviewed necessarily. Q. But it's a published? A. You said peer-reviewed. Q. I know. A. I'm saying, do you know that it was peer reviewed? Q. Now I'm saying, it's a published article, right? A. Simple yeah, you can it's an open access journal that you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your institution, right? A. As is New York Presbyterian Hospital, which is separate, so which institution Q. You have privileges at both? A. I don't have privileges in the medical school because that's not our medical school's work. So, no, I don't have privileges Q. You don't have privileges in in the hospital associated A. The hospital is is owned by New York Presbyterian Hospital. Q. Okay. A. So I have no privileges at Weill Cornell. Q. Got it. I didn't understand
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. THE WITNESS: No. BY MS. GARBER: Q. You don't agree with that? A. Because you started off the statement by saying this is peer-reviewed. This is a review article. I don't know if it's peer-reviewed. Q. It's a published article? A. It's not peer-reviewed necessarily. Q. But it's a published? A. You said peer-reviewed. Q. I know. A. I'm saying, do you know that it was peer reviewed? Q. Now I'm saying, it's a published article, right? A. Simple yeah, you can it's an open access journal that you can I mean, just because something is published, you're making it seem like	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I work in two I'm actually an employee of Weill Cornell Medical Center. But I Q. Okay. And that's your institution, right? A. As is New York Presbyterian Hospital, which is separate, so which institution Q. You have privileges at both? A. I don't have privileges in the medical school because that's not our medical school's work. So, no, I don't have privileges Q. You don't have privileges in in the hospital associated A. The hospital is is owned by New York Presbyterian Hospital. Q. Okay. A. So I have no privileges at Weill Cornell. Q. Got it. I didn't understand the the nature of that.

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Kevin Holcomb, M.D.

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Page 302
                                                                                      Page 304
               MS. CURRY: Object to the
                                                    1
                                                          from studies, and then brought into
 2
                                                    2
                                                          clinical practice.
           form.
 3
                                                    3
                                                             Q. Okay. And under that
              THE WITNESS: I don't know
 4
           if -- well, no, I don't know that
                                                    4
                                                         heading in the hierarchy at the top lists
 5
6
7
                                                    5
                                                         Cochrane systematic reviews. Do you know
           Weill Cornell has a study
                                                   6
                                                          what those are?
           hierarchy.
       BY MS. GARBER:
                                                   7
                                                             A. Yes.
 8
                                                             O. Have you ever considered
                                                    8
           Q. Okay.
 9
              (Document marked for
                                                   9
                                                          them for purposes of your practice?
10
                                                  10
                                                              A. Yes.
           identification as Exhibit
11
                                                  11
                                                             Q. You ever considered them for
           Holcomb-17.)
12
       BY MS. GARBER:
                                                  12
                                                          purposes of your opinions?
13
                                                  13
                                                             A. They are part of it --
           Q. Let's mark as Exhibit 17 a
                                                                MS. CURRY: Object to the
                                                  14
14
       document.
15
           And, Doctor, this is a
                                                  15
                                                             form.
16
       printout of a website from Weill Cornell.
                                                  16
                                                                THE WITNESS: -- yes.
                                                  17
17
       And it is titled "Evidence-based"
                                                         BY MS. GARBER:
                                                             Q. And next on the top of the
18
       Medicine, or EBM, Defined."
                                                  18
19
              Did I read that correctly?
                                                  19
                                                         hierarchy is what?
20
                                                  20
                                                             A. I'm not sure what SR is --
           A. You did.
21
           O. Under the definition it
                                                  21
                                                          systematic reviews, must be, and
                                                  22
22
       reads, "Evidence-based medicine requires
                                                          meta-analyses.
23
       the integration of the best research
                                                  23
                                                             Q. Mm-hmm. So up above the
       evidence with our clinical expertise, and
                                                  24
                                                          cohorts and the case-control are
24
                                   Page 303
                                                                                      Page 305
                                                   1
                                                          systematic reviews and meta-analyses,
 1
        our patients' unique values and
        circumstances."
 2
                                                   2
                                                          right, on this evidence-based hierarchy,
 3
4
5
6
                                                    3
                                                          right?
               And then there's a citation
        to Straus, S-T-R-A-U-S, et al.,
                                                    4
                                                              A. Yes.
                                                    5
                                                              Q. All right. And then there's
        Evidence-based Medicine 2015.
            Did you see this before you
                                                    б
                                                          evidence guidelines and the evidence
 7
        put in your expert report the hierarchy
                                                    7
                                                          summaries. And then one, two, three,
 8
        that you put from the --
                                                          four -- fifth down, lists randomized
                                                    8
 9
            A. No.
                                                    9
                                                          clinical trials, case cohorts, and
10
            Q. -- management website?
                                                  10
                                                          control studies. All in the same line,
11
                                                  11
                                                          correct?
12
                MS. CURRY: Object to the
                                                  12
                                                              A. Yes.
13
                                                  13
                                                              O. And so that's a little
14
        BY MS. GARBER:
                                                  14
                                                          different than your hierarchy, right?
15
            Q. Doctor, if we could look at
                                                  15
                                                              A. Yes.
16
        this together.
                                                  16
                                                                 MS. CURRY: Object to the
                Evidence-based medicine.
17
                                                  17
                                                              form.
18
        That is what -- that's a -- that's a
                                                  18
                                                          BY MS. GARBER:
        medical term, right, evidence-based
19
                                                  19
                                                             Q. And this one relates to
20
        medicine?
                                                  20
                                                          medicine, not to management and business,
                                                  21
21
            A. Yes.
                                                          right?
22
            Q. And it implies what to you?
                                                  22
                                                                 MS. CURRY: Object to the
23
            A. It implies practicing on
                                                  23
                                                              form.
        what's deemed to be accurate findings
24
                                                  24
                                                                 THE WITNESS: Yes. It
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77 (Pages 302 to 305)

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	Page 306		Page 308
1	relates to medicine.	1	the cohort study. And then the
2	BY MS. GARBER:	2	weaknesses and biologic
3	Q. And this is from the web	3	plausibility that led me to the
4	this is from the off the website of	4	opinion that I offered in the
5	where you practice medicine?	5	beginning.
6	A. Yes.	6	BY MS. GARBER:
7	Q. And where you teach?		Q. Do you believe that the
8	A. And where I teach. And I	7 8	case-control studies are less reliable
9	don't necessarily disagree that a	9	than the cohort studies?
10	well-designed	10	A. I believe that all study
11	Q. Doctor, I didn't ask you if	11	designs can have weaknesses. And a
12	you disagreed or not	12	poorly designed study can come in the
13	A. Okay.	13	form of any type.
14	Q I just asked you	14	You can have a poorly
15	A. Just to read the website.	15	designed cohort study. You can have a
16	MS. CURRY: Let him finish	16	poorly designed case-control study. You
17	his response, please.	17	can have a poorly designed meta-analysis.
18	BY MS. GARBER:	18	I'm sorry, I forgot your
19	Q. Are you aware that the link	19	question now.
20	between smoking and lung cancer was	20	Q. That's okay.
21	initially discovered in the case-control	21	And with regard to the
22	studies carried out in the 1950s, are you	22	cohort studies, Doctor, I don't see in
23	aware of that?	23	your expert report where you talk about
24	A. Yes.	24	the design limitations, specifically what
	71. 165.		the design initiations, specifically what
	Page 307		Page 309
1	Q. As a physician you do	1	even the authors talk about as the design
2	consider meta-analyses in your practice?	2	limitations.
3	A. Yes.	3	You don't you don't talk
4	Q. And as to the cohort studies	4	about those in your expert report, right?
5	in this case, do you rely primarily on	5	A. I'd have to read through it.
6	them in support of your opinions?	6	I'm not sure.
7	MS. CURRY: Object to the	7	Q. Okay.
8	form.	8	A. I'm not sure if I address
9	THE WITNESS: No. As I	9	that.
10	stated in the beginning, it's the	10	Q. I'll represent to you that I
11	totality of their reviews.	11	couldn't find a single word about you
12	So the cohort studies which,	12	talking about the design limitations. So
13	you know, I will still say as a	13	you can check me to see if I'm wrong.
14	design are less prone to bias than	14	You do talk about some of
15	case-control studies regardless of	15	the design limitations and the problems
16	how this is, I don't think any	16	with the case-control studies, correct?
17	anybody questions that.	17	A. That is true.
18	I will look at the whole	18	Q. And you do talk about some
19	picture which is what I did with	19	of the design limitations and problems of
20	the talc literature. So it was	20	the meta-analyses, right?
21	the inconsistency in case-control	21	A. Yes.
22	results. It was the low level of	22	Q. And so in your opinion the
23	strength of association that I	23	case-control studies do not support
24	found plus the lack of findings in	24	statistically an increased risk of talcum

	Page 310		Page 312
1	powder product exposure and risk of	1	increased risk in ovarian cancer?
2	ovarian cancer, right?	2	MS. CURRY: Object to the
3	A. My feeling is that the	3	form.
4	case-control studies are not consistent	4	THE WITNESS: In which
5	in their results. That some studies show	5	study?
6	an association and some studies don't.	6	BY MS. GARBER:
7	And that it seems to be as consistent as	7	Q. In the meta-analysis as a
8	flipping a coin.	8	body?
9	Q. Do they support the opinion	9	A. Again, yes.
10	that there is an increased risk, yes or	10	Q. Okay. The only group of
11	no?	11	studies that, in your opinion, don't
12	A. Some do, and some don't.	12	support an increased risk, you don't have
13	Q. Okay. What about the the	13	a single criticism of, yet the studies
14	cohort studies, do they support an	14	that do, you criticize; is that fair?
15	increased risk for	15	MS. CURRY: Object to the
16	A. No.	16	form.
17	Q. Let me finish my sentence.	17	THE WITNESS: If you that
18	A. Sorry.	18	is true. I'm criticizing all the
19	Q. Do the cohort studies	19	case-control studies as a design.
20	support an increased risk for talcum	20	But that means I'm criticizing the
21	powder exposure and ovarian cancer?	21	ones that didn't find an
22	A. The initial Gertig study had	22	association just as much as I'm
23	found that in a subset of just	23	criticizing the ones that do.
24	histologically split out there was an	24	I'm saying at the design,
	Page 311		Page 313
1	increased risk of serous carcinoma. The	1	there are flaws in case-control
2	reason why we're saying no about cohort	2	studies. And so I'm not just
3	studies is because the same group of	3	trying to pick on the positive
4	women, when followed longer in Gates,	4	case-control studies. I'm talking
5	that significance dropped down.	5	about case-control studies.
6	So I would say overall in	6	And that's from my look
7	those populations, the sister study, the	7	at the literature, I'm saying that
8	WHI, and the Nurses' Health Study, that	8	about half of them saying there is
9	they did not support an increased risk.	9	an association and half of them
10	Q. Do the meta-analyses as a	10	saying that there's not, I'm
11	whole support an increased risk of talcum	11	criticizing case-control study
12	powder exposure and ovarian cancer?	12	design altogether.
13	A. Not surprisingly, the	13	BY MS. GARBER:
14	meta-analyses all say that the	14	Q. You said generally that
15	case-control studies do and the cohort	15	there can be design problems with
16	studies don't, and when you mix the 27	16	cohorts, yet I don't see a single
17	case-control studies with the three	17	reference to the design limitations of
18	cohorts and weigh them fairly equally,	18	the cohorts that play in this case,
19	that you will find an increased risk when	19	right?
20	you mix them altogether, which is not at	20	A. Well, one of the concerns
21	all surprising.	21	that you can have with a cohort study is
22	Q. Do the odds ratios that are	22	whether or not you follow patients long
23	reported for epithelial ovarian cancer	23	enough, whether you have sufficient size.
2.4	and genital talc exposure support an	24	And in my read, in my
24	and genital tale exposure support an		7 ma m my read, m my

true, Doctor, that none of the cohort studies were specifically designed to concerned - size I already explained, a small level of effect in the case-control studies. It wasn't until I saw Berge, when they put them together, that I realized that you could overcome that size problem. And so I was not concerned that you would pick up an effect size that small. 10		Page 314		Page 316
2 concerned - size I already explained, 3 that I was concerned since it was such a 4 small level of effect in the ease-control 5 studies. It wasn't until I saw Berge, 6 when they put them together, that I 7 realized that you could overcome that 8 size problem. And so I was not concerned 9 that you would pick up an effect size 10 that small. 1 Q. Do you remember what my 12 question was? 11 A. Yes. You asked me did I 1 bring up criticisms. And I'm saying my 15 criticisms about cohort studies in 16 general, I was able to put to rest with 17 my reading of those cohort studies, 18 whereas things like recall bias and we 19 already went through they were at 20 able to find examples of why I was 21 concerned, and then find examples of 22 studies where I thought they were at 23 play. 24 So, I'm just explaining to Page 315 1 you, you're saying, why is there an 2 absence of criticisms on these things. I 3 didn't find any evidence of those things 4 at play in the cohort studies. 5 Q. So you didn't find as the 6 expert for Johnson & Johnson in the 7 studies that didn't find an increased 10 design Imitations in that group of 11 studies that didn't find an increased 11 risk in your opinion, and you didn't 12 the court about the study limitations of 13 the case-control and the study 14 limitations of the meta-analyses, true? 15 MS. CURRY: Object to the 16 form. 17 BY MS. GARBER: 18 Q. I didn't ask why. I just 19 said true. 20 A. True. 21 Q. Thank you. 22 All right. Let's look at a 23 couple of things. So in looking at the	1	understanding of the data. I was not	1	true. Doctor, that none of the cohort
10 that small. 11 Q. Do you remember what my 12 question was? 13 A. Yes. You asked me did I 14 bring up criticisms. And I'm saying my 15 criticisms about cohort studies in 16 general, I was able to put to rest with 17 my reading of those cohort studies, 18 whereas things like recall bias – and we 19 already went through Schildkraut – I was 20 able to find examples of why I was 21 concerned, and then find examples of 22 studies where I thought they were at 23 play. 24 So, I'm just explaining to Page 315 1 you, you're saying, why is there an 2 absence of criticisms on these things. I 3 didn't find any evidence of those things 4 at play in the cohort studies. 5 Q. So you didn't find as the 6 expert for Johnson & Johnson in the 7 studies that didn't find an increased 8 risk in your opinion, and you didn't 9 bother to advise the court that there are 10 design limitations in that group of 11 studies, the cohorts, yet you did tell 12 the court about the study limitations of 13 the case-control and the study 14 limitations of the meta-analyses, true? 15 MS. CURRY: Object to the 16 form. 17 BY MS. GARBER: 18 Q. I didn't ask why. I just 19 said true. 20 A. True. 21 Q. Thank you. 22 All right. Let's look at a 23 couple of things. So in looking at the 24 couple of things. So in looking at the 25 can be due to the small study size, 26 correct. 27 Page 317 28 BY MS. GARBER: 30 A. True. When you do a cohort 31 study, because of the time and money invested, you are very rarely going to design a cohort study to a cohort study invested, you are very rarely going to design a cohort study to a cohort study. 31 Initiation. 32 MS. CURRY: Object to the form. 32 So, I'm just explaining to 32 Jimitations in the study. 33 Jimitations of the study. 34 Jimitations of the case-road rate of the time and money invested, you are very rarely going to design a cohort study bank that's a limitation. 32 Jimitation. 34 Jimitations of the study. 35 Jimitations of the case-road rate of the time and money invested, you are very rarely going to des			2	
10	3		3	
10		small level of effect in the case-control	4	
10	5	studies. It wasn't until I saw Berge,	5	
10 that small. 11 Q. Do you remember what my 12 question was? 13 A. Yes. You asked me did I 14 bring up criticisms. And I'm saying my 15 criticisms about cohort studies in 16 general, I was able to put to rest with 17 my reading of those cohort studies, 18 whereas things like recall bias — and we 19 already went through Schildkraut — I was 20 able to find examples of why I was 21 concerned, and then find examples of 22 studies where I thought they were at 23 play. 24 So, I'm just explaining to Page 315 1 you, you're saying, why is there an 2 absence of criticisms on these things. I 3 didn't find any evidence of those things 4 at play in the cohort studies. 5 Q. So you didn't find as the 6 expert for Johnson & Johnson in the 7 studies that didn't find an increased 8 risk in your opinion, and you didn't 9 bother to advise the court that there are 10 design limitations in that group of 11 studies, the cohorts, yet you did tell 12 the court about the study 13 the case-control and the study 14 limitations of the meta-analyses, rue? 15 MS. CURRY: Object to the 16 form. 17 BY MS. GARBER: 18 Q. I didn't ask why. I just 19 said true. 20 A. True. 21 Q. Thank you. 22 All right. Let's look at a 23 couple of things. So in looking at the 24 couple of things. So in looking at the 25 Cortect, 26 The sample sizes and the 27 number of eases of most of the cohort		9 '	6	
10	7		7	
10	8		8	
10 that small. 11 Q. Do you remember what my 12 question was? 13 A. Yes. You asked me did I 14 bring up criticisms. And I'm saying my 15 criticisms about cohort studies in 16 general, I was able to put to rest with 17 my reading of those cohort studies, 18 whereas things like recall bias — and we 19 already went through Schildkraut — I was 20 able to find examples of why I was 21 concerned, and then find examples of 22 studies where I thought they were at 23 play. 24 So, I'm just explaining to Page 315 1 you, you're saying, why is there an 2 absence of criticisms on these things. I 3 didn't find any evidence of those things 4 at play in the cohort studies. 5 Q. So you didn't find as the 6 expert for Johnson & Johnson in the 7 studies that didn't find an increased 8 risk in your opinion, and you didn't 9 bother to advise the court that there are 10 design limitations in that group of 11 studies, the cohorts, yet you did tell 12 the court about the study 13 the case-control and the study 14 limitations of the meta-analyses, rue? 15 MS. CURRY: Object to the 16 form. 17 BY MS. GARBER: 18 Q. I didn't ask why. I just 19 said true. 20 A. True. 21 Q. Thank you. 22 All right. Let's look at a 23 couple of things. So in looking at the 24 couple of things. So in looking at the 25 Cortect, 26 The sample sizes and the 27 number of eases of most of the cohort	9		9	
11 Q. Do you remember what my 12 question was? 13 A. Yes. You asked me did I 14 bring up criticisms. And I'm saying my 15 criticisms about cohort studies in 16 general, I was able to put to rest with 17 my reading of those cohort studies, 18 whereas things like recall bias and we 19 already went through Schildkraut I was 20 able to find examples of why I was 21 concerned, and then find examples of 22 studies where I thought they were at 23 play. 24 So, I'm just explaining to Page 315 1 you, you're saying, why is there an 2 absence of criticisms on these things. I 3 didn't find any evidence of those things 4 at play in the cohort studies. 5 Q. So you didn't find as the 6 expert for Johnson & Johnson in the 7 studies that didn't find an increased 10 design limitations in that group of 11 studies, the cohorts, yet you did tell 12 the court about the study limitations of the case-control and the study 11 limitations of the meta-analyses, true? 12 MS. CURRY: Object to the 13 form. 14 Dr. When you do a cohort 18 study, because of the time and money 18 invested, you are very rarely going to 18 design a cohort study to answer one 18 question. 20 Right. And that's a 16 limitation, right? 21 MS. CURRY: Object to the 22 form. 23 play. 24 So, I'm just explaining to Page 315 Page 317 Sure BY MS. GARBER: Q. I didn't find an increased 7 A. No. Q. Okay. With a cohort study 10 looking at a rare cancer like ovarian 11 cancer, the study has riety of extosive, out are very rarely going to 12 design a cohort study to answer one 18 limitation, right? MS. CURRY: Object to the 19 form. 10 L's okay. 11	10			BY MS. GARBER:
12 question was? A. Yes. You asked me did I 14 bring up criticisms. And I'm saying my 15 criticisms about cohort studies in 16 general, I was able to put to rest with 17 my reading of those cohort studies, 18 whereas things like recall bias and we 19 already went through Schildkraut I was 20 able to find examples of why I was 21 concerned, and then find examples of studies where I thought they were at play. 22 studies where I thought they were at 23 play. 24 So, I'm just explaining to Page 315 1 you, you're saying, why is there an absence of criticisms on these things. I didn't find any evidence of those things at play in the cohort studies. 5 Q. So you didn't find as the expert for Johnson & Johnson in the studies that didn't find an increased risk in your opinion, and you didn't bother to advise the court that there are design limitations in that group of the case-control and the study 14 limitations of the meta-analyses, true? 15 MS. CURRY: Object to the form. 17 BY MS. GARBER: 20 A. True. 21 Q. Thank you. 22 All right. Let's look at a couple of things. So in looking at the couple of couple of things. So in looking at the couple of things. So in looking at t	11	Q. Do you remember what my	11	
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true? A. True. When you do a cohort studies in general, I was able to put to rest with my reading of those cohort studies, whereas things like recall bias and we already went through Schildkraut I was able to find examples of why I was concerned, and then find examples of studies where I thought they were at play. 24 So, I'm just explaining to Page 315 1 you, you're saying, why is there an absence of criticisms on these things. I didn't find any evidence of those things at play in the cohort studies. Q. So you didn't find as the expert for Johnson & Johnson in the studies that didn't find an increased risk in your opinion, and you didn't bother to advise the court that there are design limitations in that group of the case-control and the study limitations of the meta-analyses, true? MS. CURRY: Object to the form. A. True. MS. CURRY: Object to the form. MS. CURRY: Object to the form. A. True. MS. CURRY: Object to the form. A. True. MS. CURRY: Object to the form. A. True. MR. CURRY: Object to the form. MS. CURRY: Object to the form. A. True. Mestady because of the time and money invested, you are very rarely going to design a cohort study to answer one question. Q. Right. And that's a limitation, right? MS. CURRY: Object to the form. C. Right. And that's a limitation, right? MS. CURRY: Object to the form. A. I imitation, right? MS. CURRY: Object to the form. C. Wight and had's a limitation, right? MS. CURRY: Object to the form. A. I agree. Q. So in fact, that a cohort study looking at a rare	13	A. Yes. You asked me did I	13	
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17 my reading of those cohort studies, 18 whereas things like recall bias and we 19 already went through Schildkraut I was 20 able to find examples of why I was 21 concerned, and then find examples of 22 studies where I thought they were at 23 play. 24 So, I'm just explaining to Page 315 1 you, you're saying, why is there an 2 absence of criticisms on these things. I 3 didn't find any evidence of those things 4 at play in the cohort studies. 5 Q. So you didn't find as the 6 expert for Johnson & Johnson in the 7 studies that didn't find an increased 8 risk in your opinion, and you didn't 9 bother to advise the court that there are 10 design a cohort study to answer one 20 design a cohort study to answer one 3 design a cohort study to answer one 3 design a cohort study to answer one 4 design a cohort study to answer one 6 design a cohort study to answer one 7 design a cohort study to answer one 8 dimitation, right?	16	general, I was able to put to rest with		
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already went through Schildkraut I was able to find examples of why I was 21 concerned, and then find examples of studies where I thought they were at 23 play. 24 So, I'm just explaining to 24 THE WITNESS: I'm not 27 Page 315 Page 317 Page 315 Page 317	18	whereas things like recall bias and we	18	design a cohort study to answer one
21 concerned, and then find examples of studies where I thought they were at play. 22 play. 23 play. 24 So, I'm just explaining to Page 315 Page 315 1 you, you're saying, why is there an absence of criticisms on these things. I didn't find any evidence of those things at play in the cohort studies. 5 Q. So you didn't find as the expert for Johnson & Johnson in the studies that didn't find an increased risk in your opinion, and you didn't bother to advise the court that there are design limitations in that group of studies, the cohorts, yet you did tell the court about the study limitations of the meta-analyses, true? 15 MS. CURRY: Object to the form. 17 BY MS. GARBER: 18 Q. I didn't ask why. I just said true. 20 A. True. 21 Q. Thank you. All right. Let's look at a couple of things. So in looking at the	19	already went through Schildkraut I was	19	question.
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	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	you, you're saying, why is there an absence of criticisms on these things. I didn't find any evidence of those things at play in the cohort studies. Q. So you didn't find as the expert for Johnson & Johnson in the studies that didn't find an increased risk in your opinion, and you didn't bother to advise the court that there are design limitations in that group of studies, the cohorts, yet you did tell the court about the study limitations of the case-control and the study limitations of the meta-analyses, true? MS. CURRY: Object to the form. BY MS. GARBER: Q. I didn't ask why. I just said true. A. True. Q. Thank you.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	sure BY MS. GARBER: Q. It's okay. A in what way that was a limitation. Q. You're not sure? A. No. Q. Okay. With a cohort study looking at a rare cancer like ovarian cancer, the study has to be large enough to detect the true relative risk. Do you agree with that? A. I agree. Q. So in fact, that a cohort does not find a significant relative risk can be due to the small study size, correct? MS. CURRY: Object to the form. THE WITNESS: Correct. BY MS. GARBER:
CONOTE SHIPLES and the limitations is it 24 STILLY HILLIAMS Were too small to be	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you, you're saying, why is there an absence of criticisms on these things. I didn't find any evidence of those things at play in the cohort studies. Q. So you didn't find as the expert for Johnson & Johnson in the studies that didn't find an increased risk in your opinion, and you didn't bother to advise the court that there are design limitations in that group of studies, the cohorts, yet you did tell the court about the study limitations of the case-control and the study limitations of the meta-analyses, true? MS. CURRY: Object to the form. BY MS. GARBER: Q. I didn't ask why. I just said true. A. True. Q. Thank you. All right. Let's look at a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	sure BY MS. GARBER: Q. It's okay. A in what way that was a limitation. Q. You're not sure? A. No. Q. Okay. With a cohort study looking at a rare cancer like ovarian cancer, the study has to be large enough to detect the true relative risk. Do you agree with that? A. I agree. Q. So in fact, that a cohort does not find a significant relative risk can be due to the small study size, correct? MS. CURRY: Object to the form. THE WITNESS: Correct. BY MS. GARBER: Q. The sample sizes and the
5 study publications were too small to be	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	you, you're saying, why is there an absence of criticisms on these things. I didn't find any evidence of those things at play in the cohort studies. Q. So you didn't find as the expert for Johnson & Johnson in the studies that didn't find an increased risk in your opinion, and you didn't bother to advise the court that there are design limitations in that group of studies, the cohorts, yet you did tell the court about the study limitations of the case-control and the study limitations of the meta-analyses, true? MS. CURRY: Object to the form. BY MS. GARBER: Q. I didn't ask why. I just said true. A. True. Q. Thank you. All right. Let's look at a couple of things. So in looking at the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	sure BY MS. GARBER: Q. It's okay. A in what way that was a limitation. Q. You're not sure? A. No. Q. Okay. With a cohort study looking at a rare cancer like ovarian cancer, the study has to be large enough to detect the true relative risk. Do you agree with that? A. I agree. Q. So in fact, that a cohort does not find a significant relative risk can be due to the small study size, correct? MS. CURRY: Object to the form. THE WITNESS: Correct. BY MS. GARBER: Q. The sample sizes and the number of cases of most of the cohort

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Kevin Holcomb, M.D.

	Page 318		Page 320
1	able to accurately detect a relative risk	1	your study and then coming out
2	around 1.2 to 1.3.	2	with spurious values.
3	Do you agree with that	3	And one of the first things
4	statement?	4	that is generally thought to be a
5	MS. CURRY: Object to the	5	no-no, we don't do cross-trial
6	form.	6	comparisons in general. If you
7	THE WITNESS: I'm not sure.	7	had a group of women taking this
8	I I've seen the opinion	8	chemotherapy over here and a group
9	expressed in the Narod paper that	9	of women taking chemotherapy over
10	you you had produced earlier.	10	there, we don't compare those two
11	And I keep on referring to Berge	11	chemotherapies and say well, this
12	only because it was the one	12	study showed a response rate of
13	meta-analysis where they actually	13	this. This showed this, this,
14	addressed that.	14	that.
15	Narod said you need like	15	So whenever you're going
16	200,000 women to see this effect	16	against that rule and you're going
17	size, and then you look at three	17	to mix these people together, you
18	studies with 78,000, 61,000,	18	want to make sure that there's not
19	41,000. You're getting close to	19	heterogeneity. And the reason why
20	that 200,000. They say, we have	20	I keep on going back to Berge, is
21	99 percent power to detect the	21	because Penninkilampi somehow
22	effect size in a meta-analysis	22	looked at pretty much the same
23	that is held so highly to see the	23	studies and did not find a problem
24	same effect size in the	24	with heterogeneity, whereas Berge
21	same effect size in the	24	with heterogeneity, whereas berge
	Page 319		Page 321
1	case-control studies.	1	1. T C1 41.'-
2		_	says yeah, I found this
	BY MS. GARBER:	2	difference, but I'll caution you,
3	BY MS. GARBER: Q. Well, you do go to Berge all		
		2	difference, but I'll caution you,
3	Q. Well, you do go to Berge all	2 3	difference, but I'll caution you, don't take it too seriously
3 4	Q. Well, you do go to Berge all the time. But you do that by ignoring	2 3 4	difference, but I'll caution you, don't take it too seriously because there was too much
3 4 5	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent	2 3 4 5	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study
3 4 5 6	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right?	2 3 4 5 6	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs.
3 4 5 6 7	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem	2 3 4 5 6 7	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning,
3 4 5 6 7 8	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the	2 3 4 5 6 7 8	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to
3 4 5 6 7 8 9	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form.	2 3 4 5 6 7 8 9	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and
3 4 5 6 7 8 9	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem	2 3 4 5 6 7 8 9	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi,
3 4 5 6 7 8 9 10	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is	2 3 4 5 6 7 8 9 10	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely
3 4 5 6 7 8 9 10 11	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing	2 3 4 5 6 7 8 9 10 11 12	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely overlap the same study group, with
3 4 5 6 7 8 9 10 11 12 13	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing out the box is I'm going to look	2 3 4 5 6 7 8 9 10 11 12 13	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely overlap the same study group, with very little difference, somehow
3 4 5 6 7 8 9 10 11 12 13 14	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing out the box is I'm going to look at heterogeneity and see if these	2 3 4 5 6 7 8 9 10 11 12 13 14	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely overlap the same study group, with very little difference, somehow didn't come up with this problem.
3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing out the box is I'm going to look at heterogeneity and see if these should be mixed. And one of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely overlap the same study group, with very little difference, somehow didn't come up with this problem. BY MS. GARBER:
3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing out the box is I'm going to look at heterogeneity and see if these should be mixed. And one of the problems with putting meta-analyses on the top of your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely overlap the same study group, with very little difference, somehow didn't come up with this problem. BY MS. GARBER: Q. So
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing out the box is I'm going to look at heterogeneity and see if these should be mixed. And one of the problems with putting meta-analyses on the top of your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely overlap the same study group, with very little difference, somehow didn't come up with this problem. BY MS. GARBER: Q. So A. And so I keep on going back to it because it's the only meta-analysis that says okay, here is the group if we
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing out the box is I'm going to look at heterogeneity and see if these should be mixed. And one of the problems with putting meta-analyses on the top of your thing is assuming it's well designed. And I think all these	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely overlap the same study group, with very little difference, somehow didn't come up with this problem. BY MS. GARBER: Q. So A. And so I keep on going back to it because it's the only meta-analysis that says okay, here is the group if we put them altogether. Maybe we shouldn't
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing out the box is I'm going to look at heterogeneity and see if these should be mixed. And one of the problems with putting meta-analyses on the top of your thing is assuming it's well designed. And I think all these studies can have design flaws.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely overlap the same study group, with very little difference, somehow didn't come up with this problem. BY MS. GARBER: Q. So A. And so I keep on going back to it because it's the only meta-analysis that says okay, here is the group if we put them altogether. Maybe we shouldn't be doing it in the first place. But
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing out the box is I'm going to look at heterogeneity and see if these should be mixed. And one of the problems with putting meta-analyses on the top of your thing is assuming it's well designed. And I think all these studies can have design flaws. But I think meta-analysis is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely overlap the same study group, with very little difference, somehow didn't come up with this problem. BY MS. GARBER: Q. So A. And so I keep on going back to it because it's the only meta-analysis that says okay, here is the group if we put them altogether. Maybe we shouldn't be doing it in the first place. But we're going to do it.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing out the box is I'm going to look at heterogeneity and see if these should be mixed. And one of the problems with putting meta-analyses on the top of your thing is assuming it's well designed. And I think all these studies can have design flaws.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	difference, but I'll caution you, don't take it too seriously because there was too much heterogeneity in these two study designs. And I'm just questioning, how is it that Berge was able to find this heterogeneity issue and yet other Taher, Penninkilampi, other people who looked at largely overlap the same study group, with very little difference, somehow didn't come up with this problem. BY MS. GARBER: Q. So A. And so I keep on going back to it because it's the only meta-analysis that says okay, here is the group if we put them altogether. Maybe we shouldn't be doing it in the first place. But

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	Page 322		Page 324
1	them separately.	1	remember them splitting out the case
2	Q. So, Doctor, if you would	2	controls and the they they do say
3	then look at the Penninkilampi	3	all the impact the positive effect was
4	meta-analysis which is later than the	4	in case-control, not in cohort studies.
5	Berge meta-analysis, right?	5	Taher does say that.
6	A. Yes.	6	Although Taher, if you look
7	Q. And the Berge meta-analysis,	7	at the tables, there's a few things that
8	and you say that those are basically the	8	I don't understand. Like they they
9	same studies that the two study groups	9	say, actually in the cohort studies that
10	A. There's a lot of overlap.	10	there is some increased risk of of
11	Q studied, right?	11	ovarian cancer.
12	And the Penninkilampi says	12	And they they are
13	there's no heterogeneity. And the Berge	13	actually including Gates in that. And
14	that says there is. What is your basis	14	they say there's possibly an increased
15	to say Berge is right and Penninkilampi	15	risk in in Gates. And then go onto
16	is wrong?	16	say, "but not mucinous."
17	A. Because if you can share	17	But in Gates there was no
18	Q. You don't like the results	18	increased risk of any of the types. In
19	of Penninkilampi?	19	fact, the only one that came the closest
20	A if you can share yes.	20	to it was mucinous.
21	If you can share Penninkilampi, because	21	Q. We're going to get to that,
22	Berge the Berge, Berge, I don't know	22	and we'll go through that data, okay?
23	if I'm pronouncing it correctly, sorry.	23	A. Sure.
24	Q. However you say it.	24	Q. Let's look at Health Canada
	Daga 222		
	Page 323		Page 325
1	A. The first thing they do is	1	
1 2		1 2	as to the topic of case-control or cohort studies.
	A. The first thing they do is		as to the topic of case-control or
2	A. The first thing they do is to talk about heterogeneity in study	2	as to the topic of case-control or cohort studies.
2	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in	2 3	as to the topic of case-control or cohort studies. A. Yes.
2 3 4	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered	2 3 4	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20.
2 3 4 5	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found	2 3 4 5	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in
2 3 4 5 6 7 8	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing	2 3 4 5 6	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I
2 3 4 5 6 7 8	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you	2 3 4 5 6 7 8 9	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper?
2 3 4 5 6 7 8	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you have it. But I don't remember them even	2 3 4 5 6 7 8	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper? A. Yes, I see it.
2 3 4 5 6 7 8 9 10	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you have it. But I don't remember them even addressing it. He goes into act other lesser important areas of heterogeneity	2 3 4 5 6 7 8 9 10	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper? A. Yes, I see it. Q. Or, sorry, Health Canada. It indicates I'll I'll start with the first given.
2 3 4 5 6 7 8 9 10 11	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you have it. But I don't remember them even addressing it. He goes into act other lesser important areas of heterogeneity like the percentage that looked at mode	2 3 4 5 6 7 8 9 10 11 12	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper? A. Yes, I see it. Q. Or, sorry, Health Canada. It indicates I'll I'll start with the first given. "Given the long latency
2 3 4 5 6 7 8 9 10 11 12 13	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you have it. But I don't remember them even addressing it. He goes into act other lesser important areas of heterogeneity like the percentage that looked at mode of exposure and things like that.	2 3 4 5 6 7 8 9 10 11 12 13	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper? A. Yes, I see it. Q. Or, sorry, Health Canada. It indicates I'll I'll start with the first given. "Given the long latency period of ovarian cancer, the follow-up
2 3 4 5 6 7 8 9 10 11 12 13 14	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you have it. But I don't remember them even addressing it. He goes into act other lesser important areas of heterogeneity like the percentage that looked at mode of exposure and things like that. So if one doesn't even	2 3 4 5 6 7 8 9 10 11 12 13	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper? A. Yes, I see it. Q. Or, sorry, Health Canada. It indicates I'll I'll start with the first given. "Given the long latency period of ovarian cancer, the follow-up periods may not have been sufficient to
2 3 4 5 6 7 8 9 10 11 12 13 14	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you have it. But I don't remember them even addressing it. He goes into act other lesser important areas of heterogeneity like the percentage that looked at mode of exposure and things like that. So if one doesn't even mention it, and one mentions it and says	2 3 4 5 6 7 8 9 10 11 12 13 14 15	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper? A. Yes, I see it. Q. Or, sorry, Health Canada. It indicates I'll I'll start with the first given. "Given the long latency period of ovarian cancer, the follow-up periods may not have been sufficient to capture all cases for the individual
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you have it. But I don't remember them even addressing it. He goes into act other lesser important areas of heterogeneity like the percentage that looked at mode of exposure and things like that. So if one doesn't even mention it, and one mentions it and says we found heterogeneity, I don't assume that the one who didn't even mention it, looked at it, found heterogeneity and just decided not to mention it. I'm assuming they didn't think about it. Q. What did the Taher paper say	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper? A. Yes, I see it. Q. Or, sorry, Health Canada. It indicates I'll I'll start with the first given. "Given the long latency period of ovarian cancer, the follow-up periods may not have been sufficient to capture all cases for the individual cohort studies. "Also, given the rarity of ovarian cancer, many of the available human studies may not be sufficiently powered to detect a low odds ratio." Do you agree with both of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you have it. But I don't remember them even addressing it. He goes into act other lesser important areas of heterogeneity like the percentage that looked at mode of exposure and things like that. So if one doesn't even mention it, and one mentions it and says we found heterogeneity, I don't assume that the one who didn't even mention it, looked at it, found heterogeneity and just decided not to mention it. I'm assuming they didn't think about it. Q. What did the Taher paper say about heterogeneity? Was there a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper? A. Yes, I see it. Q. Or, sorry, Health Canada. It indicates I'll I'll start with the first given. "Given the long latency period of ovarian cancer, the follow-up periods may not have been sufficient to capture all cases for the individual cohort studies. "Also, given the rarity of ovarian cancer, many of the available human studies may not be sufficiently powered to detect a low odds ratio." Do you agree with both of those statements?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you have it. But I don't remember them even addressing it. He goes into act other lesser important areas of heterogeneity like the percentage that looked at mode of exposure and things like that. So if one doesn't even mention it, and one mentions it and says we found heterogeneity, I don't assume that the one who didn't even mention it, looked at it, found heterogeneity and just decided not to mention it. I'm assuming they didn't think about it. Q. What did the Taher paper say about heterogeneity? Was there a significant overlap in the Taher paper?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper? A. Yes, I see it. Q. Or, sorry, Health Canada. It indicates I'll I'll start with the first given. "Given the long latency period of ovarian cancer, the follow-up periods may not have been sufficient to capture all cases for the individual cohort studies. "Also, given the rarity of ovarian cancer, many of the available human studies may not be sufficiently powered to detect a low odds ratio." Do you agree with both of those statements? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. The first thing they do is to talk about heterogeneity in study design. And I'd like to see in Penninkilampi to say that they considered study design heterogeneity and found none. Because I don't remember seeing that. I'd like to see the paper if you have it. But I don't remember them even addressing it. He goes into act other lesser important areas of heterogeneity like the percentage that looked at mode of exposure and things like that. So if one doesn't even mention it, and one mentions it and says we found heterogeneity, I don't assume that the one who didn't even mention it, looked at it, found heterogeneity and just decided not to mention it. I'm assuming they didn't think about it. Q. What did the Taher paper say about heterogeneity? Was there a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	as to the topic of case-control or cohort studies. A. Yes. Q. Page 20. All right. On Page 20 in this paragraph here. Do you see where I am in the in the Taher paper? A. Yes, I see it. Q. Or, sorry, Health Canada. It indicates I'll I'll start with the first given. "Given the long latency period of ovarian cancer, the follow-up periods may not have been sufficient to capture all cases for the individual cohort studies. "Also, given the rarity of ovarian cancer, many of the available human studies may not be sufficiently powered to detect a low odds ratio." Do you agree with both of those statements?

82 (Pages 322 to 325)

1	Page 326		Page 328
	A. I'll start off.	1	MS. CURRY: I'm sorry.
2	Q. Do you agree with either	2	You you've asked three
3	one?	3	questions already that he's trying
4	A. I I'll start off. The	4	to respond to. So we'll still on
5	long latency for ovarian cancer suggests	5	question Number 1 as to why he
6	we know the latency for ovarian cancer.	6	disagrees with these two
7	To determine the latency for a cancer you	7	statements.
8	have to know the time from exposure to a	8	BY MS. GARBER:
9	carcinogen to the time it develops.	9	Q. I just I just now asked
10	So most people who make	10	you if you have an opinion as to the
11	statements about ovarian cancer latency	11	latency period.
12	will look at things like women who	12	A. I was yeah, I'm I'm
13	developed ovarian cancer after the	13	trying to keep my train of thought
14	dropping of the atomic bomb at Hiroshima.	14	steady. And I'm sure you want to keep
15	They'll look at the chance of developing	15	yours steady as well.
16	ovarian cancer after heavy occupational	16	So I'm going to finish
17	exposure to asbestos.	17	answering the first thing you asked and
18	You have to know the	18	then we'll get to that.
19	carcinogen first before you can determine	19	Q. Okay.
20	the latency. So they are assuming, well,	20	A. So sample sizes were not
21	if there is long latency in these	21	large enough to detect the 20 to
22	situations it should be the same. But	22	30 percent increased risk. And as you
23	instead it's taken as a given.	23	said, I keep going back to Berge, because
24	Given the long latency of	24	they say yes, there was enough.
	Page 327		Page 329
1	ovarian cancer. Latency to what?	1	If you add those three
2	Latency from what incident? There	2	cohort studies, you had 99 percent chance
3	latency from	3	of picking up what was in the
4	Q. Do you have an opinion of	4	case-control studies, but yet Taher
5	the years?	5	says or, sorry, Health Canada says
6	A. Excuse me?	6	that there may not have been enough. But
7	Q. Do you have an opinion of	7	they and then they they quote Narod
8	the years of latency	8	as opposed to quoting there's no
9	A. I I'm just letting	9	mention of Berge saying that there was
10	Q of ovarian cancer?	10	enough. There's just Narod's op Ed
11	A. I'm saying that you	11	opinion in 2016 which was not based on a
12	MS. CURRY: Object to the	12	single study. So I didn't so I didn't
13	form. And were you done with your	13	agree with either one.
14	prior answer?	14	Q. So the Narod paper is
15	THE WITNESS: No. Because I	15	talking in the abstract about the design
16	didn't go through the other part.	16	of cohort studies, and that you need a
17	And then but going back	17	sufficient number to detect a low odds
18	to the other one where they say	18	ratio.
19	BY MS. GARBER:	19	The Berge study is talking
20	Q. Sorry, Doctor, can I	20	about their study, his study, right?
	interrupt you?	21	A. Berge was a meta-analysis.
21			
21 22	Do you have an opinion	22	Q. Yeah. And and they're
21	Do you have an opinion A. I'd like to finish my first	22 23	Q. Yeah. And and they're talking about, for purposes of power, that study. Narod is talking about in

83 (Pages 326 to 329)

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assumptions get made over and over and over and over of what the latency period is. And you asked me then, do I have an opinion on what the latency period is. And you asked me then, do I have an opinion on what the latency period is. And I can say that if you had heavy occupational exposure to abestos to answer the question of what tale does when dusted on the pyrineum, I wouldn't stick on a hypothetical statement by Narod 15 when you actually have data from women in the clinical scenario 16 when you actually have data from women in the clinical scenario 17 that you're questioning, do you or 18 do you not have the power to detect the level of -the low level of effect. 21 They are admitting it's a 22 low level. They are saying that maybe it wasn't enough. But I'm saying there's a study out there Page 331 that says it was enough and gives the explanation with the numbers. I'm saying there's a study out there Page 331 that says it was enough and gives the explanation with the numbers. I'm son cited here. Q. Doctor, you recognize that Health Canada is recognizing that the latency for development of ovarian cancer is an important issue in the cohort designs, right? MS. CURRY: Object to the form. Page 331 The WITNESS: I'm - I'm not requesting that. I'm questioning what is the latency for development of ovarian cancer? is an important issue in the cohort designs, right? MS. CURRY: Object to the form. The WITNESS: I'm - I'm not requesting that. I'm questioning what is the latency for development of ovarian cancer? MS. CURRY: Object to the form. The WITNESS: I'm - I'm not requesting that. I'm questioning what is the latency for devolopment of ovarian cancer? No one knows. So any extrapolation is an extrapolation occupational exposure. So there is an assumption, and these and over of what the latency provide is an assumption, and these and of have an opinion on what the latency provide in hard heavy occupational exposure. A nor I'll text of No. No. I'll send heavy occupational exposure. A nor I'll text of No.		Page 330		Page 332
they have to have sufficient number of—of study participants or you are not going to detect a small risk. A. In the same way that I wouldn't look at — MS. CURRY: Object to the form. THE WITNESS: — Occupational exposure to asbestos to answer the question of what 1 tale does when dusted on the perineum, I wouldn't stick on a 14 hypothetical statement by Narod when you actually have data from that you're questioning, do you or do you not have the power to detect the level of — the low level of effect. They are admitting it's a low level. They are saying that maybe it wasn't enough. But I'm saying there's a study out there is an important issue in the cohort designs, right? MS. CURRY: Object to the form. Page 331 that says it was enough and gives the explanation with the numbers. It's not cited here. MS. CURRY: Object to the form. Page 331 that says it was enough and gives the explanation with the numbers. If some it's not cited here. MS. CURRY: Object to the form. Page 331 THE WITNESS: I'm — I'm not requesting that the latency for development of ovarian cancer is an important issue in the cohort designs, right? MS. CURRY: Object to the form. THE WITNESS: I'm — I'm not requesting that. I'm questioning what is the latency from If you assume that tale causes ovarian cancer? No one knows. So any tale causing ovarian cancer? No one knows. So any tale couplant is in extrapolation is an extrapolat	1	general when you look at cohort studies,	1	assumptions get made over and over
do Inave an opinion on what the latency period is: A. In the same way that I buildn't look at Build look at Buildn't look at Buildn't look at Buildn't loo	2		2	and over of what the latency
4 going to detect a small risk. 5 A. In the same way that I 6 wouldn't look at 7 MS. CURRY: Object to the 8 form. 9 THE WITNESS: 10 occupational exposure to asbestos 11 to answer the question of what 12 tale does when dusted on the 13 perineum, I wouldn't stick on a 14 hypothetical statement by Narod 15 when you actually have data from 16 women in the clinical scenario 17 that you're questioning, do you or 18 do you not have the power to 19 detect the level of the low 20 level of effect. 21 They are admitting it's a 22 low level. They are saying that 23 maybe it wasn't enough. But I'm 24 saying there's a study out there 25 BY MS. GARBER: 26 Q. Doctor, you recognize that 27 Health Canada is recognizing that the 28 latency for development of ovarian cancer 29 is an important issue in the cohort 20 designs, right? 21 THE WITNESS: I'm - I'm not 22 requesting that. I'm questioning 24 not be assume that tale causes ovarian 25 correct? 26 A. If's possible, yes. Based 27 on that says it was cnough and gives 28 the explanation with the numbers. 39 If's not it's not cited 40 ferm. 41 MS. CURRY: Object to the 42 latency for development of ovarian cancer 43 is important issue in the cohort 44 requesting that. I'm questioning 45 my that is the latency from 46 latency for development of ovarian cancer 47 cancer, what is the latency for 48 tale does when dusted on the 49 volume in the cohort 40 can sup what it it can be as long as 20 to 40 years, 41 correct? 42 correct? 43 correct? 44 correct of the low 45 correct? 45 correct? 46 correct? 47 can correct of the 47 can correct of the 48 correct of the low 49 correct of the low 40 years and maybe it wasn't enough. But I'm 40 you have testified in a 40 prior case that ovarian cancer has a long 40 latency is frame what is the latency 41 form. 41	3		3	period is. And you asked me then,
Mos. Curry: Object to the form. Some the question of what Some the question of when you actually have data from women in the clinical scenario Some the question of go you not have the power to Some the question of go you not have the power and power	4		4	do I have an opinion on what the
7 MS. CURRY: Object to the 8 form. 8 form. 9 THE WITNESS: 10 occupational exposure to asbestos 10 occupational exposure to asbestos 11 to answer the question of what 12 Q. I can do two things at once. I can multitask. I'm listening. I'm listening. 16 when you actually have data from women in the clinical scenario 16 women in the clinical scenario 16 women in the clinical scenario 17 that you're questioning, do you or 18 detect the level of the low 19 somewhere around 20 years, maybe 10 to 20 years. That's the question. 18 detect the level of the low 19 somewhere around 20 years, maybe 10 to 20 years. That's the question. 19 years and the wasn't enough. But I'm 22 procease that ovarian cancer has a long latency; is that true? Page 331 1 that says it was enough and gives 1 the explanation with the numbers. 2 the explanation with the numbers. 2 the explanation with the numbers. 3 It's not it's not cited 4 here. 4 here. 4 here. 4 here. 4 here. 5 BY MS. GARBER: 5 BY MS. GARBER: 5 BY MS. GARBER: 6 Q. Doctor, you recognize that 7 Health Canada is recognizing that the latency for development of ovarian cancer is an important issue in the cohort 20 designs, right? 10 MS. CURRY: Object to the form. 11 MS. CURRY: Object to the form. 12 Q. Yeah. All right. And you have testified that it can be as long as 20 to 40 years, correct? 11 MS. CURRY: Object to the form. 12 Q. Yeah. All right. 11 MS. CURRY: Object to the form. 12 Q. Yeah. All right. 12 MS. CURRY: Object to the form. 12 Q. Yeah. All right. 13 MS. CURRY: Object to the form. 14 The with	5	A. In the same way that I	5	latency period is.
8 form. 9 THE WITNESS: 10 occupational exposure to asbestos 11 to answer the question of what 12 tale does when dusted on the 13 perineum, I wouldn't stick on a 14 hypothetical statement by Narod 15 when you actually have data from 16 women in the clinical scenario 17 that you're questioning, do you or 18 do you not have the power to 18 do you not have the power to 19 detect the level of the low 19 detect the level of the low 20 level of effect. 21 They are admitting it's a 22 low level. They are saying that 23 maybe it wasn't enough. But I'm 24 saying there's a study out there Page 331 1 that says it was enough and gives 2 the explanation with the numbers. 2 the explanation with the numbers. 3 It's not it's not cited 4 here. 5 BY MS. GARBER: 6 Q. Doctor, you recognize that 7 Health Canada is recognizing that the 8 latency for development of ovarian cancer 9 is an important issue in the cohort 10 designs, right? 11 MS. CURRY: Object to the 12 form. 13 THE WITNESS: I'm I'm not 14 requesting that. I'm questioning 15 what is the latency for development of ovarian cancer 16 Q. And you're aware of the 17 cancer, what is the latency for development of ovarian cancer 18 tale causing ovarian cancer? 19 No one knows. So any 20 extrapolation is an extrapolation 21 from another situation like an 22 atomic bomb, like in a heavy 23 occupational exposure. So there 24 the companies of the purdie study form 2003 that indicated the latency for development of ovarian cancer? 24 A can you show me Purdie study 25 occupational exposure. So there 26 No one knows. So any 27 extrapolation is an extrapolation 28 atomic bomb, like in a heavy 29 occupational exposure. So there 20 identification as Exhibit 21 floromb-18.)	6	wouldn't look at	6	And I can say that if you
9 THE WITNESS: 10 occupational exposure to asbestos 11 to answer the question of what 12 talc does when dusted on the 13 perincum, I wouldn't stick on a 14 hypothetical statement by Narod 15 when you actually have data from 16 women in the clinical scenario 17 that you're questioning, do you or 18 do you not have the power to 19 detect the level of the low 19 detect the level of the low 20 level of effect. 21 They are admitting it's a 22 low level. They are saying that 23 maybe it wasn't enough. But I'm 24 saying there's a study out there Page 331 1 that says it was enough and gives 2 the explanation with the numbers. 3 It's not it's not cited 4 here. 5 BY MS. GARBER: 6 Q. Doctor, you recognize that 7 Health Canada is recognizing that the 8 latency for development of ovarian cancer 9 is an important issue in the cohort 10 designs, right? 11 MS. CURRY: Object to the 12 form. 13 THE WITNESS: I'm I'm not 14 requesting that. I'm questioning 15 what is the latency from. If you 16 assume that talc causes ovarian 17 cancer, what is the latency for 18 talc causing ovarian cancer? 19 No one knows. So any 20 extrapolation is an extrapolation 21 from another situation like an 22 atomic bomb, like in a heavy 23 occupational exposure. So there 10 designs right? 11 MS. CURRY: Object to the 12 form. 13 THE WITNESS: I'm I'm not 14 requesting that. I'm questioning 15 what is the latency from. If you 26 extrapolation is an extrapolation 27 extrapolation is an extrapolation 28 for identification as Exhibit 29 for identification as Exhibit 20 form. 21 from another situation like an 22 atomic bomb, like in a heavy 23 occupational exposure. So there 29 for in the distort his isten late. 20 form. 21 from another situation like an 21 from another situation like an 22 for individual to an another situation like an 23 for individual to an another situation like an 24 for individual to an another situation like an 25 for individual to an another situation like an 26 for individual to an another situation like an 27	7	MS. CURRY: Object to the	7	had heavy occupational exposure
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23 occupational exposure. So there 23 Holcomb-18.)			1	
1 1 /			I	
is an assumption, and these 24 BY MS. GARBER:	23		1	

84 (Pages 330 to 333)

	Page 334		Page 336
1	Q. Let's mark as Exhibit 18.	1	bit it says couple lines, it says,
2	The Purdie 2003 study.	2	"Thus, the latency period of more
3	Doctor, if you turn to Page	3	advanced malignant epithelial ovarian
4	231. Following Footnote 23, it reads,	4	cancer could be estimated to be
5	"With regard to the latency"	5	approximately 30 to 40 years."
6	A. I'm sorry. 231.	6	A. "This time frame is
7	Following you said	7	consistent with data from the Hiroshima
8	Q. Here. Look up here, Doctor.	8	cohort."
9	A. Hold on one second.	9	Yes. They're doing what I
10	Q. The authors state, "It is	10	said. They're extrapolating from an
11	likely that ovarian cancer has a	11	atomic bomb victim to figure out what the
12	reasonable"	12	latency would be for somebody putting
13	A. I'm sorry. Can you I	13	talcum powder in their underwear.
14	really want to read along with you. I	14	Q. And, Doctor, do you have any
15	just don't see where you are. You said	15	reason or basis strike that.
16	231 is the page we're on?	16	Do you have any basis to
17	Q. Yes.	17	claim that the latency period would be
18	A. Okay. Left? Right?	18	any different for talcum powder exposure
19	Q. Left-hand column.	19	and development of ovarian cancer?
20	A. Okay. Top of the page,	20	A. In the totality of my review
21	middle of the page, bottom?	21	of the literature, I don't see sufficient
22	Q. Right here. "It is likely	22	evidence to consider that talcum powder
23	that ovarian cancer has a reasonably long	23	even causes ovarian cancer. So I don't
24	latency period between initiation and	24	have a carcinogen to start off with to
	Page 335		D 22E
	rage 333		Page 337
1	manifestation of established disease, and	1	start estimating latency.
2	manifestation of established disease, and this is exacerbated by unusually late	1 2	start estimating latency. What they're saying is, if
2	manifestation of established disease, and this is exacerbated by unusually late clinical detection of the disease."	2 3	start estimating latency. What they're saying is, if you extrapolate from the few situations
2 3 4	manifestation of established disease, and this is exacerbated by unusually late	2 3 4	start estimating latency. What they're saying is, if you extrapolate from the few situations that we know that cause ovarian cancer,
2 3 4 5	manifestation of established disease, and this is exacerbated by unusually late clinical detection of the disease."	2 3 4 5	start estimating latency. What they're saying is, if you extrapolate from the few situations
2 3 4 5 6	manifestation of established disease, and this is exacerbated by unusually late clinical detection of the disease." A. And that	2 3 4	start estimating latency. What they're saying is, if you extrapolate from the few situations that we know that cause ovarian cancer,
2 3 4 5	manifestation of established disease, and this is exacerbated by unusually late clinical detection of the disease." A. And that Q. And you agree you	2 3 4 5	start estimating latency. What they're saying is, if you extrapolate from the few situations that we know that cause ovarian cancer, they have a long latency. So the assumption is, well, this must have a long latency period too.
2 3 4 5 6 7 8	manifestation of established disease, and this is exacerbated by unusually late clinical detection of the disease." A. And that Q. And you agree you disagree with that?	2 3 4 5 6 7 8	what they're saying is, if you extrapolate from the few situations that we know that cause ovarian cancer, they have a long latency. So the assumption is, well, this must have a long latency period too. They've given no citation
2 3 4 5 6 7 8 9	manifestation of established disease, and this is exacerbated by unusually late clinical detection of the disease." A. And that Q. And you agree you disagree with that? MS. CURRY: Object to the form. I think you said unusually. The word is usually.	2 3 4 5 6 7 8	start estimating latency. What they're saying is, if you extrapolate from the few situations that we know that cause ovarian cancer, they have a long latency. So the assumption is, well, this must have a long latency period too.
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	Page 338		Page 340
1	design a study that is going to follow	1	ovarian cancer is the biologic
2	women 10 or six or 15 years when you know	2	plausibility and where it falls
3	that potentially it could be 20,	3	apart on dose-response.
4	40 years? You're not going to detect all	4	So I'm saying, just because
5	the risk, are you?	5	you followed somebody from
6	MS. CURRY: Object to the	6	12 years, doesn't mean that they
7	form.	7	started using talc the day before
8	THE WITNESS: I think	8	she signed consent.
9	there's a misconception between	9	And so no, if you're talking
10	how long you follow a patient and	10	about a behavior that likely
11	latency.	11	starts in the 20s, and you're
12	Latency doesn't start when	12	trying to design a study that's
13	you designed a study and she	13	enrolling women who started at 50,
14	signed the consent form. Latency	14	yeah, 12 years should be enough.
15	started from exposure to	15	BY MS. GARBER:
16	development of a cancer.	16	Q. Doctor, in the studies
17	So if somebody, let's say,	17	themselves, do they indicate when the
18	on the woman's health initiative,	18	women started using the tale, the age at
19	is 55 at the time that she goes	19	which they started using the tale?
20	on, and you're trying to convince	20	MS. CURRY: Object to the
21	me earlier that this is this	21	form.
22	habitual thing that she does, that	22	THE WITNESS: Again, no. I
23	she doesn't even think about it.	23	am referring to what Dr. Cramer
23 24		24	believes.
24	Cramer 2016 says she likely	24	believes.
		ì	
	Page 339		Page 341
1	Page 339 started in her 20s. She may be	1	Page 341 BY MS. GARBER:
1 2		1 2	
	started in her 20s. She may be	l	BY MS. GARBER: Q. You're making assumptions
2	started in her 20s. She may be decades in by the time that you're	2	BY MS. GARBER: Q. You're making assumptions based on one given study
2	started in her 20s. She may be decades in by the time that you're following her.	2	BY MS. GARBER: Q. You're making assumptions
2 3 4	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been	2 3 4	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection.
2 3 4 5	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then	2 3 4 5	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER:
2 3 4 5 6	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or in the case of Gates, they were	2 3 4 5 6	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were exposed to talc. Isn't that true?
2 3 4 5 6 7	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or	2 3 4 5 6 7	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were
2 3 4 5 6 7 8	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or in the case of Gates, they were followed for 24 years, and they	2 3 4 5 6 7 8	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were exposed to talc. Isn't that true? MS. CURRY: Object to the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or in the case of Gates, they were followed for 24 years, and they showed even women who had greater than 20 years' exposure didn't have an increased risk. The other problem with this concept that you're having, like you're missing the latency, you would expect that even in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were exposed to talc. Isn't that true? MS. CURRY: Object to the form. THE WITNESS: Honest no. Honestly it's it's also personal experience with just people in my family who have used talc. It's been it hasn't been
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or in the case of Gates, they were followed for 24 years, and they showed even women who had greater than 20 years' exposure didn't have an increased risk. The other problem with this concept that you're having, like you're missing the latency, you would expect that even in the studies that are showing an effect, that you should be able to show a dose-response curve with duration of use. And it's an inconsistent thing. And all the data, it's inconsistent. There's one of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were exposed to talc. Isn't that true? MS. CURRY: Object to the form. THE WITNESS: Honest no. Honestly it's it's also personal experience with just people in my family who have used talc. It's been it hasn't been my experience. I I don't know anybody BY MS. GARBER: Q. That's not scientific, Doctor, is it? A. It's not. No. But you asked me what it's based on. I'm saying I don't know anybody who starts using
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or in the case of Gates, they were followed for 24 years, and they showed even women who had greater than 20 years' exposure didn't have an increased risk. The other problem with this concept that you're having, like you're missing the latency, you would expect that even in the studies that are showing an effect, that you should be able to show a dose-response curve with duration of use. And it's an inconsistent thing. And all the data, it's inconsistent.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were exposed to talc. Isn't that true? MS. CURRY: Object to the form. THE WITNESS: Honest no. Honestly it's it's also personal experience with just people in my family who have used talc. It's been it hasn't been my experience. I I don't know anybody BY MS. GARBER: Q. That's not scientific, Doctor, is it? A. It's not. No. But you asked me what it's based on. I'm saying

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	D 340		D 244
	Page 342		Page 344
1	Q. Okay. And if you were going	1	Q. Doctor, I'm going to mark
2	to take my history if I were one of your	2	the Gertig 2000 study
3	patients and you wanted to find out about	3	(Document marked for
4	my risk for developing lung cancer, you	4	identification as Exhibit
5	wanted to find out about my smoking	5	Holcomb-19.)
6	history, ask me what questions you	6	BY MS. GARBER:
7	would and tell me what questions you	7	Q as I'm sorry as
8	would ask me.	8	Exhibit 19.
9	A. I would ask	9	Doctor, a study limitation
10	MS. CURRY: Object to the	10	of the Nurses' Health Study is that the
11	form.	11	authors only captured talcum powder
12	BY MS. GARBER:	12	exposure one time in 1982 via
13	Q. About my exposure?	13	questionnaire, right?
14	A. I would ask when you started	14	A. It's true.
15	smoking cigarettes. How many cigarettes	15	Q. Another limitation is the
16	a day do you smoke.	16	study's exposure metric only captured
17	Q. What else?	17	frequency of use, and not cumulative use,
18	A. Have you been exposed to	18	correct?
19	asbestos. I know that's a co-carcinogen.	19	MS. CURRY: Object to the
20	Things like that.	20	form.
21	Q. So when I started.	21	THE WITNESS: Yes.
22	A. Mm-hmm.	22	BY MS. GARBER:
23	Q. And how	23	Q. And Table 2 shows that the
24	A. Do you still smoke today?	24	talc use in the perineum is never less
	Page 343		Page 345
1	O how frequently I smoke?	1	
1 2	Q how frequently I smoke? A. Mm-hmm.	1 2	than one week, one to one to six
	A. Mm-hmm.		than one week, one to one to six sorry.
2	A. Mm-hmm.Q. And so that's a two-sided	2	than one week, one to one to six sorry. Less than one time per week,
2 3	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration.	2	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily,
2 3 4	 A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. 	2 3 4	than one week, one to one to six sorry. Less than one time per week,
2 3 4 5	 A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important 	2 3 4 5	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes.
2 3 4 5 6 7	 A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? 	2 3 4 5 6	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate
2 3 4 5 6	 A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the 	2 3 4 5 6 7	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by
2 3 4 5 6 7 8	 A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? 	2 3 4 5 6 7 8	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate
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2 3 4 5 6 7 8 9	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right?	2 3 4 5 6 7 8 9	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the
2 3 4 5 6 7 8 9 10	 A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: 	2 3 4 5 6 7 8 9 10 11	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct?
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2 3 4 5 6 7 8 9 10 11 12 13	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true.	2 3 4 5 6 7 8 9 10 11 12 13	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that?
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree.
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay. Stand by, please. The time is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of the women may have stopped using talcum
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay. Stand by, please. The time is 3:28 p.m. Off the record.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of the women may have stopped using talcum powder products over the study period.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay. Stand by, please. The time is 3:28 p.m. Off the record. (Short break.)	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of the women may have stopped using talcum powder products over the study period. Do you agree with that?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay. Stand by, please. The time is 3:28 p.m. Off the record. (Short break.) THE VIDEOGRAPHER: Okay. We	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of the women may have stopped using talcum powder products over the study period. Do you agree with that? A. Not likely.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay. Stand by, please. The time is 3:28 p.m. Off the record. (Short break.) THE VIDEOGRAPHER: Okay. We are back on the record. The time	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of the women may have stopped using talcum powder products over the study period. Do you agree with that? A. Not likely.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay. Stand by, please. The time is 3:28 p.m. Off the record. (Short break.) THE VIDEOGRAPHER: Okay. We	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of the women may have stopped using talcum powder products over the study period. Do you agree with that? A. Not likely. Q. Do you agree that there were

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	Page 346		Page 348
1	A. Yes.	1	under the multivariant relative risk,
2	Q. That's a far cry from the	2	right?
3	requisite 200 of the Narod study,	3	A. Yes. Earlier you had said
4	correct?	4	reference. So yes. It's 1.09.
5	MS. CURRY: Object to the	5	Q. That's an elevated risk,
6	form.	6	right?
7	THE WITNESS: I've already	7	THE VIDEOGRAPHER: Can you
8	addressed that in the past.	8	give me one second. Sorry. Just
9	BY MS. GARBER:	9	lost power in my camera for some
10	Q. All right. You didn't	10	reason.
11	and didn't you testify in the Ingham case	11	Stand by. The time is
12	that we don't know if there was a proper	12	3:59 p.m. Off the record.
13	control group because we don't know if	13	(Brief pause.)
14	the control group was exposed to talcum	14	THE VIDEOGRAPHER: Okay. We
15	powder products via diapering?	15	are back on the record. The time
16	MS. CURRY: Object to the	16	is 4:00 p.m.
17	form.	17	BY MS. GARBER:
18	THE WITNESS: You'd have to	18	Q. And, Doctor, before that
19	show me my	19	break, I was just asking you about ever
20	BY MS. GARBER:	20	use of perineal talc ever perineal
21	Q. You don't recall testifying	21	talc use. And I asked you, is a
22	about that?	22	multivariant relative risk 1.09 with a
23	A. We talked I'd be happy to	23	confidence interval of 0.86 to 1.37. And
24	read through it again. I don't have an	24	you agreed that that's what it is,
	Page 347		Page 349
1	independent memory of that.	1	correct?
2	Q. All right. The Gertig paper	2	correct? A. Yes.
2 3	Q. All right. The Gertig paper provided a result for ever use of talcum	2 3	correct? A. Yes. Q. That's an elevated risk,
2 3 4	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for	2 3 4	correct? A. Yes. Q. That's an elevated risk, correct?
2 3 4 5	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall	2 3 4 5	correct? A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the
2 3 4 5 6	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that?	2 3 4 5 6	correct? A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form.
2 3 4 5 6 7	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes.	2 3 4 5 6 7	correct? A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's
2 3 4 5 6 7 8	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you	2 3 4 5 6 7 8	correct? A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether
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2 3 4 5 6 7 8 9 10	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you Table 2 here. Table 2, ever perineal talc use, yes, no. Correct?	2 3 4 5 6 7 8 9 10	A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether that's an elevated risk. Because the true risk estimate is somewhere between having a 14
2 3 4 5 6 7 8 9 10 11 12	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you Table 2 here. Table 2, ever perineal talc use, yes, no. Correct? A. Correct.	2 3 4 5 6 7 8 9 10 11 12	A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether that's an elevated risk. Because the true risk estimate is somewhere between having a 14 yeah, 14 percent reduction in risk
2 3 4 5 6 7 8 9 10 11 12 13	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you Table 2 here. Table 2, ever perineal talc use, yes, no. Correct? A. Correct. Q. All right. And the point	2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether that's an elevated risk. Because the true risk estimate is somewhere between having a 14 yeah, 14 percent reduction in risk to a 37 percent increase in risk.
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you Table 2 here. Table 2, ever perineal talc use, yes, no. Correct? A. Correct. Q. All right. And the point estimate for ever use of talc, talc	2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether that's an elevated risk. Because the true risk estimate is somewhere between having a 14 yeah, 14 percent reduction in risk to a 37 percent increase in risk. And the true risk is somewhere in
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you Table 2 here. Table 2, ever perineal talc use, yes, no. Correct? A. Correct. Q. All right. And the point estimate for ever use of talc, talc powder products and EOC was 1.9 with a	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether that's an elevated risk. Because the true risk estimate is somewhere between having a 14 yeah, 14 percent reduction in risk to a 37 percent increase in risk. And the true risk is somewhere in there. Where exactly the true
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you Table 2 here. Table 2, ever perineal talc use, yes, no. Correct? A. Correct. Q. All right. And the point estimate for ever use of talc, talc powder products and EOC was 1.9 with a confidence interval of 0.86 to 1.37; is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether that's an elevated risk. Because the true risk estimate is somewhere between having a 14 yeah, 14 percent reduction in risk to a 37 percent increase in risk. And the true risk is somewhere in there. Where exactly the true risk estimate I'm not sure.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you Table 2 here. Table 2, ever perineal talc use, yes, no. Correct? A. Correct. Q. All right. And the point estimate for ever use of talc, talc powder products and EOC was 1.9 with a confidence interval of 0.86 to 1.37; is that correct? A. No. The reference is by Definition 1. Q. The ever use.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether that's an elevated risk. Because the true risk estimate is somewhere between having a 14 yeah, 14 percent reduction in risk to a 37 percent increase in risk. And the true risk is somewhere in there. Where exactly the true risk estimate I'm not sure. BY MS. GARBER: Q. The point estimate, the point estimate is elevated at 1.09, true? MS. CURRY: Object to the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you Table 2 here. Table 2, ever perineal talc use, yes, no. Correct? A. Correct. Q. All right. And the point estimate for ever use of talc, talc powder products and EOC was 1.9 with a confidence interval of 0.86 to 1.37; is that correct? A. No. The reference is by Definition 1. Q. The ever use. A. I'm sorry. Q. The ever use	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether that's an elevated risk. Because the true risk estimate is somewhere between having a 14 yeah, 14 percent reduction in risk to a 37 percent increase in risk. And the true risk is somewhere in there. Where exactly the true risk estimate I'm not sure. BY MS. GARBER: Q. The point estimate, the point estimate is elevated at 1.09, true? MS. CURRY: Object to the form. THE WITNESS: The point
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you Table 2 here. Table 2, ever perineal talc use, yes, no. Correct? A. Correct. Q. All right. And the point estimate for ever use of talc, talc powder products and EOC was 1.9 with a confidence interval of 0.86 to 1.37; is that correct? A. No. The reference is by Definition 1. Q. The ever use. A. I'm sorry. Q. The ever use A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether that's an elevated risk. Because the true risk estimate is somewhere between having a 14 yeah, 14 percent reduction in risk to a 37 percent increase in risk. And the true risk is somewhere in there. Where exactly the true risk estimate I'm not sure. BY MS. GARBER: Q. The point estimate, the point estimate is elevated at 1.09, true? MS. CURRY: Object to the form. THE WITNESS: The point estimate is elevated, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. All right. The Gertig paper provided a result for ever use of talcum powder products on the perineum for ovarian cancer at Table 2. Do you recall that? A. Yes. Q. And I'll just show you Table 2 here. Table 2, ever perineal talc use, yes, no. Correct? A. Correct. Q. All right. And the point estimate for ever use of talc, talc powder products and EOC was 1.9 with a confidence interval of 0.86 to 1.37; is that correct? A. No. The reference is by Definition 1. Q. The ever use. A. I'm sorry. Q. The ever use	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. That's an elevated risk, correct? MS. CURRY: Object to the form. THE WITNESS: No. That's you can't say for sure whether that's an elevated risk. Because the true risk estimate is somewhere between having a 14 yeah, 14 percent reduction in risk to a 37 percent increase in risk. And the true risk is somewhere in there. Where exactly the true risk estimate I'm not sure. BY MS. GARBER: Q. The point estimate, the point estimate is elevated at 1.09, true? MS. CURRY: Object to the form. THE WITNESS: The point

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	Page 350		Page 352
1	Q. And the follow-up study	1	limitations that I just went through with
2	period was just 14 years, correct, here	2	you are cited or addressed in your expert
3	at Table 2, it sets forth a follow-up	3	report; is that true?
4	period.	4	A. That's true. I did not
5	If you look here at the	5	consider that a while a potential
6	table, you see the study period?	6	study limitation, I sort of I looked
7	A. Okay	7	at the literature in totality, and other
8	Q. It's 14 years, right?	8	papers suggested that while they could
9	A. One second. I'm just doing	9	not account for it, it's very likely that
10	the math. I went to public school.	10	this was a practice that began early in
11	Q. Okay. I went to a private	11	the women's lives.
12	school. But I'm not good at math either.	12	And so for completeness'
13	A. Yes, 14 years.	13	sake, they are mentioning this as a
14	Q. Okay. And with regard to	14	limitation. But the follow-up period, as
15	that follow-up period at Page 251,	15	I mentioned earlier, of 14 years would be
16	Doctor, the authors note the limitation	16	too short to pick up a latency of
17	in that they state, "In that regard, in	17	15 years if the woman just started using
18	the peer-reviewed paper"	18	tale the day she signed the consent. But
19	MS. CURRY: I'm sorry, where	19	if she had used talc for just three years
20	are you	20	before signing the consent, it would not
21	THE WITNESS: I'm sorry, I	21	have been a weakness.
22	don't know where you're reading.	22	So I respect them mentioning
23	BY MS. GARBER:	23	this for completeness' sake. But the
24	Q. I'm reading at the top of	24	likelihood of them having not enough time
	Page 351		Page 353
1	251, right-hand column. The authors	1	for latency because latency again is
2	state, "Our relatively short follow-up	2	not follow-up time, it's exposure to
3	period may be inadequate to detect an	3	diagnosis I think it's unlikely that
4	association if the latency for	4	they would not have the latency if you
5	development of ovarian cancer is more	5	extrapolated from an atomic bomb victim.
6	than 15 years."	6	Q. Did I ask you why those
7	Did I read that correctly?	7	aren't those study limitations aren't
8	A. You read that correctly.	8	contained within your expert report?
9	Q. So the authors are noting	9	A. No. You asked me if it was
10	that study limitation, correct?	10	mentioned. And I was just explaining why
11	A. Yes, they did.	11	it wasn't.
12	Q. Also, at 251, the authors in	12	Q. Try to just answer my
13	the middle column note that there are	13	questions, if you can, Doctor. I really
14	several important study limitations,	14	appreciate it.
15	correct?	15	The relative risk for ever
16	A. That's what it says, yes.	16	use of talcum powder products in serous
17	Q. The authors also note that	17	invasive ovarian cancer was elevated at
18	they cannot determine the age at which	18	1.4 with a confidence interval of 1.02 to
19	women began using talc or the duration of	19	1.91, correct?
20	their use. That's what they say under	20	A. It depends on what type of
21	the heading of "Several Important	21	use you're talking about. Because
	T 1 1 1 1 0 0 1 1 1 1 1 0	22	strangely enough, in this study, for some
22	Limitations in Our Study," right?	l	
23	A. Yes.	23	reason, if you use talcum powder on your
		l	

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	Page 354		Page 356
1	sanitary napkins, an increased exposure,	1	So if Gates has 24 years of
2	the point estimates are actually	2	follow-up, I would look at Gates
3	protective, there's .89, of course	3	as the answer to this.
4	crossing one, and .90. So	4	So that's exactly what
5	Q. Doctor, what was my	5	happened in this situation. These
6	question?	6	same group of women followed years
7	A. You said ever use of what	7	later, closer to covering the
8	type.	8	latency that you were concerned
9	MS. CURRY: Did you complete	9	about, this risk went away.
10	your thought?	10	And so I don't think I would
11	BY MS. GARBER:	11	report twice on the same cohort of
12	Q. So, Doctor, you'll get a	12	patients.
13	chance to answer questions that counsel	13	MS. GARBER: Objection.
14	for Johnson & Johnson may want to ask	14	Motion to strike as nonresponsive.
15	you.	15	BY MS. GARBER:
16	My question was, is the odds	16	Q. Doctor, you didn't cite in
17	ratio for serous ovarian cancer 1.4 with	17	the four corners of your expert report
18	a confidence interval of 1.02 to 1.91?	18	that the Gertig study showed an increased
19		19	risk in serous ovarian cancer, did you?
20	Is that what's reported in the study?	20	MS. CURRY: Object to the
21	A. I'm sorry. One second,	21	form.
22	ma'am. For multivariate, it's 1.4, yes.	22	
23	Q. Okay. And serous ovarian		THE WITNESS: I just
	cancer, as you testified several hours	23 24	explained why I made the general
24	ago, is a type of ovarian cancer,	24	statement
	D 255		
	Page 355		Page 357
1	correct?	1	Page 357 BY MS. GARBER:
1 2		1 2	
	correct?		BY MS. GARBER:
2	correct? A. The most predominate type,	2	BY MS. GARBER: Q. I didn't ask you why. My
2	correct? A. The most predominate type, yes.	2 3	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't
2 3 4	correct? A. The most predominate type, yes. Q. Okay. And so when you say	2 3 4	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise.
2 3 4 5	correct? A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk	2 3 4 5	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER:
2 3 4 5 6	correct? A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error,	2 3 4 5 6	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the
2 3 4 5 6 7	correct? A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk	2 3 4 5 6 7	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER:
2 3 4 5 6 7 8	A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because	2 3 4 5 6 7 8	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what the results were for serous ovarian
2 3 4 5 6 7 8 9	correct? A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because A. No.	2 3 4 5 6 7 8	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what
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2 3 4 5 6 7 8 9 10 11 12	A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because A. No. Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the	2 3 4 5 6 7 8 9 10 11	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because A. No. Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same	2 3 4 5 6 7 8 9 10 11 12 13 14	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because A. No. Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because A. No. Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because A. No. Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because A. No. Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with 24 years follow-up, I was under	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes. Q. What is your basis for that?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because A. No. Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with 24 years follow-up, I was under impression with your criticisms of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes. Q. What is your basis for that? A. Pretty much as I stated in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because A. No. Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with 24 years follow-up, I was under impression with your criticisms of the study that the one with the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes. Q. What is your basis for that? A. Pretty much as I stated in the report, that you said that I didn't
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. The most predominate type, yes. Q. Okay. And so when you say in your expert report that none of the cohort studies showed an increased risk in ovarian cancer, that was an error, right? Because A. No. Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with 24 years follow-up, I was under impression with your criticisms of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. GARBER: Q. I didn't ask you why. My question was very clear and precise. MS. SHARKO: You can't interrupt him. BY MS. GARBER: Q. Did you did you in the four corners of your report state what the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes. Q. What is your basis for that? A. Pretty much as I stated in

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	Dago 250		Daga 260
	Page 358		Page 360
1	ovarian cancer in the Gertig study, which	1	Q. In fact, there are
2	was stated on the bottom of Page 10	2	epidemiological studies as recent as
3	clearly. And that I can read it to	3	2018, that use the Gertig study in their
4	you, "In 2010 Gates, et al."	4	meta-analysis, right, the Penninkilampi
5	Q. You don't have to read it,	5	for one?
6	Doctor. I can read it for myself. Let	6	A. That is true. And a
7	me withdraw that.	7	weakness of the study.
8	Doctor, did the Gates	8	Q. We're going to get to that.
9	authors state that their study reversed	9	I'm sure that's your opinion. But that
10	the findings of the Gertig 2000 study?	10	study relies on the Gertig study, in
11	MS. CURRY: Object to the	11	other words, if they are including it in
12	form.	12	their meta-analysis, surely those study
13	THE WITNESS: The results	13	authors aren't thinking that the results
14	did, yes.	14	are reversed by Gates, correct?
15	BY MS. GARBER:	15	A. And
16	Q. Did the study authors say	16	MS. CURRY: Object to the
17		17	form.
18	our data reversed the findings, used that	18	THE WITNESS: and by not
	phrase, "reversed the findings" of the	19	
19	Gertig study?	1	including Gates, they will come to
20	A. I'd have to read through the	20	a spurious result. They will
21	study to see if it was mentioned.	21	think that maybe a prospective
22	Q. Is it epidemiologically	22	study supports that there's an
23	sound to say, "My study reversed the	23	increased risk. Where if they had
24	findings of a prior study"?	24	done and this is what I was
	Page 359		Page 361
1	MS. CURRY: Object to the	1	saying about meta-analysis.
2	form.	2	Not only do you have to
3	BY MS. GARBER:	3	worry about heterogeneity. And we
4	Q. Have you ever heard that	4	spent enough time talking about
5	done?	5	that. But selection of the
6	A. I use the term. So yes,	6	studies that go into your
7	I've heard it done.	7	meta-analysis are very, very
8	Q. It's your turn it's your	8	important. And one and
9	term?	9	selection bias is is a very
10	MS. CURRY: Object to the	10	important thing that you have to
11	form.	11	watch out for as well.
12	THE WITNESS: I use it in my	12	So the fact that
13	·	13	
14	report, yes. BY MS. GARBER:	14	Penninkilampi, as late as that study just came out, was unable to
		1	• 3
15 16	Q. Have you seen any other	15	figure out that that same cohort
16	study authors who say, in all of	16	had been followed for ten years
17	epidemiological literature that you've	17	longer, we strengthening the
18	looked at, that says that the Gates 2010	18	study by increasing the follow-up
19	study reversed the findings of the Gertig	19	time, all the criticisms you just
20	2000 study?	20	gave me about Gertig is now
21	A. I could not tell you that	21	strengthened in Gates, and yet you
22	out of all the epidemiologic studies that	22	choose to use the number from
	I've read whether or not that term was	23	Gertig. I'd have to ask why would
23		1	•
23 24	used.	24	somebody who's seeking the truth

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	Page 362		Page 364
1	do that.	1	A. Correct.
2	BY MS. GARBER:	2	Q. And the age of the women in
3	Q. I'm going to show you some	3	the Gates 2010 were younger than the
4	data and see if we can figure that out	4	study women in the Gertig?
5	together.	5	MS. CURRY: Objection to
6	You don't have any basis to	6	form.
7	conclude that the Penninkilampi authors	7	BY MS. GARBER:
8	didn't know about the Gates 2010 data,	8	Q. Is that true?
9	did you?	9	A. I'm sorry, say the
10	MS. CURRY: Object to the	10	Q. Sorry. The age of the women
11	form.	11	in Gates 2010 were younger than the
12	THE WITNESS: I'm saying	12	Gertig women, correct?
13	that I don't see in their	13	MS. CURRY: Object to form.
14	definitions, including the studies	14	THE WITNESS: You mean the
15	that they included, the search	15	same women that were followed
16	terms that they included, a reason	16	in in Gertig, by the time they
17	why they would negate Gates.	17	saw them ten years later they were
18	BY MS. GARBER:	18	younger?
19	Q. Do you know whether or not	19	BY MS. GARBER:
20	the Taher authors included the Gertig or	20	Q. Is there a disparity in the
21	the Gates study?	21	age of the two cohorts?
22	A. I believe they included	22	A. Between Gertig and Gates.
23	both. But if I can look at it. Because	23	MS. CURRY: Not I
24	earlier that was where I was telling you	24	think
	Page 363		Page 365
			-
1	that they are saying Gates shows a	1	THE WITNESS: I'm a I'm a
1 2	that they are saying Gates shows a possible increased risk of cancer in	1 2	
			THE WITNESS: I'm a I'm a
2	possible increased risk of cancer in	2	THE WITNESS: I'm a I'm a little confused by your question.
2 3 4 5	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up?	2	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER:
2 3 4 5 6	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going	2 3 4	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women
2 3 4 5 6 7	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up?	2 3 4 5 6 7	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study?
2 3 4 5 6 7 8	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute	2 3 4 5 6 7 8	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the
2 3 4 5 6 7 8	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute A. Okay.	2 3 4 5 6 7 8 9	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form.
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2 3 4 5 6 7 8 9 10	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute A. Okay. Q when I'm done with these cohorts, so	2 3 4 5 6 7 8 9 10 11	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form. BY MS. GARBER: Q. Maybe I'll show you
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2 3 4 5 6 7 8 9 10 11 12 13	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute A. Okay. Q when I'm done with these cohorts, so All right. Let's let's talk about Gates 2010.	2 3 4 5 6 7 8 9 10 11 12 13	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form. BY MS. GARBER: Q. Maybe I'll show you A. Yes. Q and then you can maybe
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute A. Okay. Q when I'm done with these cohorts, so All right. Let's let's talk about Gates 2010. (Document marked for identification as Exhibit	2 3 4 5 6 7 8 9 10 11 12 13 14 15	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form. BY MS. GARBER: Q. Maybe I'll show you A. Yes. Q and then you can maybe help me understand. A. Because I don't need to read
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute A. Okay. Q when I'm done with these cohorts, so All right. Let's let's talk about Gates 2010. (Document marked for identification as Exhibit Holcomb-20.)	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form. BY MS. GARBER: Q. Maybe I'll show you A. Yes. Q and then you can maybe help me understand. A. Because I don't need to read through.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute A. Okay. Q when I'm done with these cohorts, so All right. Let's let's talk about Gates 2010. (Document marked for identification as Exhibit Holcomb-20.) BY MS. GARBER:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form. BY MS. GARBER: Q. Maybe I'll show you A. Yes. Q and then you can maybe help me understand. A. Because I don't need to read through. Q. Doctor, if you could look
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute A. Okay. Q when I'm done with these cohorts, so All right. Let's let's talk about Gates 2010. (Document marked for identification as Exhibit Holcomb-20.) BY MS. GARBER: Q. I'll mark as Exhibit 20, the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form. BY MS. GARBER: Q. Maybe I'll show you A. Yes. Q and then you can maybe help me understand. A. Because I don't need to read through. Q. Doctor, if you could look right here?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute A. Okay. Q when I'm done with these cohorts, so All right. Let's let's talk about Gates 2010. (Document marked for identification as Exhibit Holcomb-20.) BY MS. GARBER: Q. I'll mark as Exhibit 20, the Gates 2010 publication: Doctor, the Gates 2010 article was a publication of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form. BY MS. GARBER: Q. Maybe I'll show you A. Yes. Q and then you can maybe help me understand. A. Because I don't need to read through. Q. Doctor, if you could look right here? A. Sure. Q. On the first page. Do you see where it says, "The Nurses' Health
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute A. Okay. Q when I'm done with these cohorts, so All right. Let's let's talk about Gates 2010. (Document marked for identification as Exhibit Holcomb-20.) BY MS. GARBER: Q. I'll mark as Exhibit 20, the Gates 2010 publication: Doctor, the Gates 2010 article was a publication of the follow-up to the Nurses' Health Study I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form. BY MS. GARBER: Q. Maybe I'll show you A. Yes. Q and then you can maybe help me understand. A. Because I don't need to read through. Q. Doctor, if you could look right here? A. Sure. Q. On the first page. Do you see where it says, "The Nurses' Health Study was established in 1976 and the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	possible increased risk of cancer in their table, where and I'm talking about on the the can I pull out Taher since you bring it up? Q. That's okay. We're going to we're going to get there in a minute A. Okay. Q when I'm done with these cohorts, so All right. Let's let's talk about Gates 2010. (Document marked for identification as Exhibit Holcomb-20.) BY MS. GARBER: Q. I'll mark as Exhibit 20, the Gates 2010 publication: Doctor, the Gates 2010 article was a publication of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: Q. Okay. Do you understand that the women who were included in the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form. BY MS. GARBER: Q. Maybe I'll show you A. Yes. Q and then you can maybe help me understand. A. Because I don't need to read through. Q. Doctor, if you could look right here? A. Sure. Q. On the first page. Do you see where it says, "The Nurses' Health

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	Page 366		Page 368
1	registered nurses aged 30 to 55 and	1	the metric is talc use greater than once
2	116,430 U.S. female registered nurses	2	a week versus less than once a week.
3	aged 25 to 42 respectively."	3	It's not ever never, correct?
4	So the two cohorts are	4	A. Correct.
5	different ages, are they not?	5	Q. That's a different metric
6	MS. CURRY: Object to the	6	from Gertig, right?
7	form.	7	A. Different metric, yes.
8	THE WITNESS: I'm sorry, I'm	8	Q. Thank you.
9	just taking my time to read	9	A. Valid valid change
10	through this again.	10	though.
11	BY MS. GARBER:	11	Q. Okay. But different
12	Q. Mm-hmm. Do you need time to	12	nonetheless, right?
13	study? We'll go off the record if you	13	A. Different and valid.
14	do.	14	Q. While the Gates 2010 study
15	A. No. That seems to be the	15	followed women for ten more years, the
16		16	follow-up is, in total, 26 years,
17	case, yes. Q. Okay. Okay. In the Gates	17	correct?
18	study they were not asked questions about	18	A. Correct.
19	it about their talc use. Instead, the	19	Q. And we don't know when the
20		20	women were exposed, at what age they
	data about their talc exposure was	21	began using talc, correct, the study
21 22	carried over from the Gertig one-time	22	doesn't either study doesn't tell us
	1982 questionnaire. Do you agree with	23	that, correct?
23	that?	24	A. No.
24	A. It's my understanding that	24	A. No.
	Page 367		Page 369
1	the NHSII population was not queried on	1	Q. And assuming the latency for
2	their use of talc because it was a	2	ovarian cancer is 30 to 40 years, that
3	one-time questionnaire in 1982.		ovarian cancer is so to to years, that
	one-time questionnaire in 1762.	3	study period would be inadequate to
4	So yes, the NHSII	3 4	
4 5			study period would be inadequate to
	So yes, the NHSII	4	study period would be inadequate to accurately detect all of the women with
5	So yes, the NHSII population is younger than the NHSI, but	4 5	study period would be inadequate to accurately detect all of the women with ovarian cancer. Would you agree with
5 6	So yes, the NHSII population is younger than the NHSI, but the question of the effect of talc on	4 5 6	study period would be inadequate to accurately detect all of the women with ovarian cancer. Would you agree with that?
5 6 7	So yes, the NHSII population is younger than the NHSI, but the question of the effect of talc on ovarian cancer was in only in patients	4 5 6 7	study period would be inadequate to accurately detect all of the women with ovarian cancer. Would you agree with that? MS. CURRY: Object to the
5 6 7 8	So yes, the NHSII population is younger than the NHSI, but the question of the effect of talc on ovarian cancer was in only in patients that have been asked about ovarian cancer	4 5 6 7 8	study period would be inadequate to accurately detect all of the women with ovarian cancer. Would you agree with that? MS. CURRY: Object to the form. THE WITNESS: No. I think
5 6 7 8 9	So yes, the NHSII population is younger than the NHSI, but the question of the effect of talc on ovarian cancer was in only in patients that have been asked about ovarian cancer exposure.	4 5 6 7 8 9	study period would be inadequate to accurately detect all of the women with ovarian cancer. Would you agree with that? MS. CURRY: Object to the form. THE WITNESS: No. I think if you if you can stretch to
5 6 7 8 9	So yes, the NHSII population is younger than the NHSI, but the question of the effect of talc on ovarian cancer was in only in patients that have been asked about ovarian cancer exposure. Q. Mm-hmm. And that's a study	4 5 6 7 8 9	study period would be inadequate to accurately detect all of the women with ovarian cancer. Would you agree with that? MS. CURRY: Object to the form. THE WITNESS: No. I think if you if you can stretch to the assumption that the latency
5 6 7 8 9 10	So yes, the NHSII population is younger than the NHSI, but the question of the effect of talc on ovarian cancer was in only in patients that have been asked about ovarian cancer exposure. Q. Mm-hmm. And that's a study limitation, correct?	4 5 6 7 8 9 10	study period would be inadequate to accurately detect all of the women with ovarian cancer. Would you agree with that? MS. CURRY: Object to the form. THE WITNESS: No. I think if you if you can stretch to the assumption that the latency for something that's not even
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	So yes, the NHSII population is younger than the NHSI, but the question of the effect of talc on ovarian cancer was in only in patients that have been asked about ovarian cancer exposure. Q. Mm-hmm. And that's a study limitation, correct? A. No. Q. Okay. In the Gates 2010 the authors provide no results for ever use of talcum powder product on the perineum for ovarian cancer; is that true? A. No. Q. It's not true? A. No. Hold on one second. Sorry. I have to go and find. Q. Doctor, if you turn to	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	study period would be inadequate to accurately detect all of the women with ovarian cancer. Would you agree with that? MS. CURRY: Object to the form. THE WITNESS: No. I think if you if you can stretch to the assumption that the latency for something that's not even proven carcinogenic is the same as somebody working in a gas mask factory, I think you can equally in fact, it takes less of a stretch to believe that the women didn't start talc use four years before they went on the study, because that is not what most people believe, even
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	So yes, the NHSII population is younger than the NHSI, but the question of the effect of talc on ovarian cancer was in only in patients that have been asked about ovarian cancer exposure. Q. Mm-hmm. And that's a study limitation, correct? A. No. Q. Okay. In the Gates 2010 the authors provide no results for ever use of talcum powder product on the perineum for ovarian cancer; is that true? A. No. Q. It's not true? A. No. Hold on one second. Sorry. I have to go and find.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	study period would be inadequate to accurately detect all of the women with ovarian cancer. Would you agree with that? MS. CURRY: Object to the form. THE WITNESS: No. I think if you if you can stretch to the assumption that the latency for something that's not even proven carcinogenic is the same as somebody working in a gas mask factory, I think you can equally in fact, it takes less of a stretch to believe that the women didn't start talc use four years before they went on the study, because that is not what most people believe, even Dr. Cramer doesn't believe most
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So yes, the NHSII population is younger than the NHSI, but the question of the effect of talc on ovarian cancer was in only in patients that have been asked about ovarian cancer exposure. Q. Mm-hmm. And that's a study limitation, correct? A. No. Q. Okay. In the Gates 2010 the authors provide no results for ever use of talcum powder product on the perineum for ovarian cancer; is that true? A. No. Q. It's not true? A. No. Hold on one second. Sorry. I have to go and find. Q. Doctor, if you turn to Table 4	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	study period would be inadequate to accurately detect all of the women with ovarian cancer. Would you agree with that? MS. CURRY: Object to the form. THE WITNESS: No. I think if you if you can stretch to the assumption that the latency for something that's not even proven carcinogenic is the same as somebody working in a gas mask factory, I think you can equally in fact, it takes less of a stretch to believe that the women didn't start talc use four years before they went on the study, because that is not what most people believe, even

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	Page 370		Page 372
1	Q. But you have no data as to	1	directionality. And that's why I said
2	when the women in this study actually	2	it's obviously directionality positive.
	started talc use, do you?	3	And if you're asking me is
4	A. No.	4	it a valid study, one that I would rely
5	Q. The Gates relative risk for	5	on with a degree of medical certainty, I
6	women who use talc greater than once a	6	would say no, because I'm one of those
	week and serous ovarian cancer is 1.06	7	old school doctors who still believe that
8	with a confidence interval of 0.84 to	8	95 percent confidence intervals are
9	1.35. Do you agree with that?	9	important.
10	A. Sorry, one second. Yes.	10	Q. If the Court asked you if
11	Q. And again, under your	11	the Gertig serous ovarian cancer in the
12	definition of positive, you do not think	12	Gates study was positive or negative, how
13	that is a positive finding, correct?	13	would you reply?
14	A. Positive and not	14	A. I would say it's a negative.
	statistically significant, yes.	15	Q. Okay. And I think we
16	Q. You do think it's positive,	16	already covered this. But you can't cite
	but not statistically significant?	17	me to any authority, can you, that the
18	MS. CURRY: Object to the	18	Gates study reverses the Gertig finding,
19	form.	19	correct?
20	THE WITNESS: If you're	20	MS. CURRY: Object to the
21	asking me about directionality,	21	form.
22	it's obvious. Because	22	THE WITNESS: Well, I'm here
23	directionality it's positive.	23	giving my testimony. So I'm going
24	I do not consider it a	24	to assume the mantle of an
	Page 371		Page 373
1	significant or valid finding	1	authority. And I would say if
2	because I can't say for 90	2	this group is followed for ten
3	percent, 95 percent accuracy, that	3	years longer and I'll add the
4	the true risk estimate lies above	4	caveat that women who used it for
5	one.	5	less than one week had the same
6	BY MS. GARBER:	6	risk in a study just two years
7	Q. So, Doctor, earlier today	7	before this, as women who had
	you told me that where relative risk was	8	never used.
	greater than one, but not statistically	9	So if you go to Gates 2008,
	significant, that was a negative finding.	10	you will see for this study cohort
11	Are you now changing your	11	there's no reason to believe that
	definition of positive versus negative?	12	it's not a valid thing to lump
13	A. I think you just misstated	13	somebody who used it in less than
	my statement, because that's not	14	one week with never used, based on
	doesn't make sense what you just said.	15	the Gates 2008 data.
16	Q. Okay. I thought you told me	16	So, yes, I would say this
	earlier today when I asked you what a	17	1.4 that was found in Gertig is
	negative study was, it included an odds	18	not is no longer here.
	ratio that could be greater than one but	19	And so in my estimation,
	if it wasn't statistically significant,	20	this reverses the findings. This
'17	it was a negative study in your opinion?	21	says in the same population of
22	A. In this term, the question	22	women followed longer, the
22 23	A. In this term, the question that you just asked me when you were asked positive, I thought you were asking	22 23 24	women followed longer, the increased risk went away. BY MS. GARBER:

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	Page 374		Page 376
1	Q. The study authors, again, do	1	BY MS. GARBER:
2	not say that, correct?	I	Q. And what was the exposure
3	A. I'd have to	2 3 4 5 6 7 8 9	metric in the Houghton study?
4	Q. They don't say it reverses?	4	A. There was a question at
5	A. I don't remember. I'd have	5	baseline with, "Have you ever used powder
6	to read through the whole discussion	6	on your private parts/genital areas?"
7	section for you.	7	And then respondents responding yes, were
8	Q. Okay. And, Doctor, as to	8	then asked to identify the duration of
9	the Houghton study, the WHI study, you	9	use. It was less than one year, one to
10	read that one, right?	10	four years, five to nine years, and all
11	A. Yes.	11	the way up to greater than 20 years.
12	Q. You say in your report, at	12	Q. And, Doctor, that's
13	Page 11 in sort of the middle of the	13	that's a duration of use
14	page, that there was no statistically	14	A. Right.
15	significant association between use of	15	Q assessment, right?
16	genital talc and the development of	16	A. Yes.
17	ovarian cancer for ever users?	17	Q. And that doesn't take into
18	A. I'm sorry. The page again?	18	consideration frequency of use, right?
19	Q. Page 11.	19	A. No.
20	A. Yes.	20	Q. All right. And then the
21	Q. And to make that statement,	21	Houghton authors state that the Nurses'
22	there is	22	Health Study found that there was a
23	A. I'm still looking for it.	23	40 percent increase in the risk with a
24	One second.	24	confidence interval of 1.02 to 1.91?
	Page 375		Page 377
			Page 377
1	Q. It's in the middle of the	1	A. I'm not sure where you're
2	Q. It's in the middle of the page.	2	A. I'm not sure where you're looking.
2	Q. It's in the middle of the page.A. Can you repeat the statement	2 3	A. I'm not sure where you're looking.Q. Okay. Doctor, if you look
2 3 4	Q. It's in the middle of the page. A. Can you repeat the statement that you said I'm looking for.	2 3 4	A. I'm not sure where you're looking.Q. Okay. Doctor, if you look at the right-hand yeah. If you look
2 3 4 5	 Q. It's in the middle of the page. A. Can you repeat the statement that you said I'm looking for. Q. In your expert report at 	2 3 4 5	A. I'm not sure where you're looking. Q. Okay. Doctor, if you look at the right-hand yeah. If you look at the first page, the right-hand column.
2 3 4 5 6	Q. It's in the middle of the page. A. Can you repeat the statement that you said I'm looking for. Q. In your expert report at Page 11 as to the Houghton study	2 3 4 5 6	A. I'm not sure where you're looking. Q. Okay. Doctor, if you look at the right-hand yeah. If you look at the first page, the right-hand column. MS. CURRY: Which study?
2 3 4 5 6 7	Q. It's in the middle of the page. A. Can you repeat the statement that you said I'm looking for. Q. In your expert report at Page 11 as to the Houghton study A. Yes.	2 3 4 5 6 7	A. I'm not sure where you're looking. Q. Okay. Doctor, if you look at the right-hand yeah. If you look at the first page, the right-hand column. MS. CURRY: Which study? Sorry.
2 3 4 5 6 7 8	Q. It's in the middle of the page. A. Can you repeat the statement that you said I'm looking for. Q. In your expert report at Page 11 as to the Houghton study A. Yes. Q you indicate that there	2 3 4 5 6 7 8	A. I'm not sure where you're looking. Q. Okay. Doctor, if you look at the right-hand yeah. If you look at the first page, the right-hand column. MS. CURRY: Which study? Sorry. MS. GARBER: Houghton.
2 3 4 5 6 7 8 9	Q. It's in the middle of the page. A. Can you repeat the statement that you said I'm looking for. Q. In your expert report at Page 11 as to the Houghton study A. Yes. Q you indicate that there was no statistically significant	2 3 4 5 6 7 8	A. I'm not sure where you're looking. Q. Okay. Doctor, if you look at the right-hand yeah. If you look at the first page, the right-hand column. MS. CURRY: Which study? Sorry. MS. GARBER: Houghton. THE WITNESS: Yeah, but we
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MS. CURRY: 21. MS. SHARKO: Oh, 21? Okay. BY MS. GARBER: Q. Doctor, do you see where I'm striking right here, on the right-hand side? A. Yes. Q. The—the sentence begins, "In the Nurses' Health Study (NHS) cotort, no overall association was found between the use of perineal powder and epithelial ovarian cancer" and it cites the odds ratio. It goes on to say, "However, there was a 40 percent with a 95 percent confidence in interval of 1.02 to 1.91 increased risk for serous invasive ovarian cancers in the cohort." Did I read that correctly. A. You read it correctly. Did I read that correctly. A. Yes. The beginning of that paragraph says, "To date there has only been one prospective study conducted the prospective study doundured." In the cohort." Page 379 Page 379 Page 379 Page 379 A. You read it correctly. A. Yes. The beginning of that study, right? A. Yes. The beginning of that study, right? A. Yes. The beginning of that study, rought was one study with two publications? A. That's correct. And I would consider it inappropriate not to mention that follow-up information. A. That's correct. And I would consider it inappropriate not to mention that follow-up information. A. That's correct. And I would consider it inappropriate not to mention that follow-up information. A. They do. MS. CURRY: Object to the form. THE WITNESS: I just think it's a mistake for leave out what it's a mistake for leave out what it's a mistake for her paragraph and follow in through with now publications? A. No, I think that if you are talking about how many studies, This is 2013. And we've already established there was a follow-up to that study, correct? A. That's correct. And I would consider it inappropriate not to mention that the Getreg study, rothe Gates 2010 reversed the findings of the Getrig study; rather, they cite those data, don't they? A. They do. MS. CURRY: Object to the form. THE WITNESS: I just think it's a mistake for on the right-hand in fact to that they don't care and the paragraph and follow i		Page 378		Page 380
BY MS. GARBER: Q. Doctor, do you see where I'm marking right here, on the right-hand side? A. Yes. Q. The the sentence begins, 9 "In the Nurses' Health Study (NHS) cohort, no overall association was found 10 correct," and it cites the odds ratio. It 13 cites the risk "or serous ovarian 12 gos on to say, "However, there was a 14 cancer," and it cites the odds ratio. It 15 gos on to say, "However, there was a 16 percent with a 95 percent confidence 17 interval of 1.02 to 1.91 increased risk for serous invasive ovarian cancers in the cohort." Did I read that correctly. A. Yes. The beginning of that paragraph says, "To date there has only been one prospective study conducted." A. Yes. The beginning of that study, right? A. Yes. The beginning of that study, right? A. Yes. The beginning of that study, in 2010 that wasn't included here. Q. And that's precisely my point. So here, the Houghton authors are citing to the Gertig study, not the Gates 2010 reversed the findings of form. THE WITNESS: I just think it's a mistake to leave out what 23 mistake to leave out what 24 mistake to leave out what 25 mistake to leave out what 25 mistake t	1	MS. CURRY: 21.	1	date, there has only been one
3 BY MS. GARBER: 4 Q. Doctor, do you see where I'm arking right here, on the right-hand side? 5 marking right here, on the right-hand side? 6 A. Yes. 8 Q. The the sentence begins, 9 "In the Nurses' Health Study (NHS) 10 cohort, no overall association was found between the use of perineal powder and cities the risk "or serous ovarian at cancer," and it cites the odds ratio. It 13 cites the risk "or serous ovarian at 2 goes on to say, "However, there was a 16 40 percent with a 95 percent confidence in interval of 1.02 to 1.91 increased risk 17 interval of 1.02 to 1.91 increased risk 18 for serous invasive ovarian cancers with ever perineal use, which comprises in the cohort." 22 Did I read that correctly? 23 A. You read it correctly. 24 Q. And that cites to the Gertig 24 This is 2013. And we've already established there was a follow-up to that study in 2010 that wasn't included here. Q. And that's precisely my point. So here, the Houghton authors are collecting to the Gertig study, not the Gates 10 citing to the Gertig study, rather, they cite those data, don't they? 19 A. They do. MS. CURRY: Object to the form. 20 MS. CURRY: Object to the form. 21 If word which in fact to that date, there had been two studies. If you on't want to say one reversed it. Then you have to at least admit that there was two studies. If you of that at surdy, in the colon. The word in that there was two studies with two publications? 3 A. You read it correctly. 2 A. Yes. The beginning of that study in 2010 that wasn't included here. Q. And that's precisely my point. So here, the Houghton authors are collected in the facts of the Gates study, correct? 3 A. That's correct. And I would consider it inappropriate not to mention that follow-up information. 4 the Gates 2010 reversed the findings of the Gates and you are talking about what percentage are positive, what percentage are positive, what percentage are talking about what perc			2	
4 Q. Doctor, do you see where I'm marking right here, on the right-hand side? 7 A. Yes. 8 Q. The the sentence begins, 9 "In the Nurses' Health Study (NHS) 10 cohort, no overall association was found 11 between the use of perineal powder and 12 epithelial ovarian cancer" and it cancer," and it cites the risk "o'r serous ovarian 13 consider it inappropriate not to mention that follow-up information. Page 379 Page 379 Page 381 Pag			1	
5 marking right here, on the right-hand side? 6 side? 7 A. Yes. 8 Q. The the sentence begins, 9 "In the Nurses' Health Study (NHS) 10 cohort, no overall association was found 11 between the use of perineal powder and 12 epithelial ovarian cancer," and it cites the odds ratio. It 13 cites the risk "or serous ovarian 14 cancer," and it cites the odds ratio. It 15 goes on to say, "However, there was a 15 yes, you're accurate you read 16 d0 percent with a 95 percent confidence 17 interval of 1.02 to 1.91 increased risk 18 for serous invasive ovarian cancers 19 in the cohort." 19 Og Porcent aluse, which comprises 19 in the cohort." 20 More and it correctly. 21 Did I read that correctly. 22 A. You read it correctly. 23 A. You read it correctly. 24 Q. And that cites to the Gertig 24 become prospective study conducted. This is 2013. And we've already 24 established there was a follow-up to that 37 study in 2010 that wasn't included here. Q. And that's precisely my 25 point. So here, the Houghton authors are 10 citing to the Gertig study, not the Gates 11 study, correct? A. That's correct. And I would 13 consider it inappropriate not to mention 14 that follow-up information. 14 that follow-up information. 15 Q. The authors don't say that 16 the Gates 2010 reversed the findings of the Gertig study; rather, they cite those 17 the Gertig study; rather, they cite those 18 data, don't they? 19 A. They do. MS. CURRY: Object to the form. 21 THE WITNESS: I just think 22 With London't cite. 20 So I'm - the Nurses' Health Study with my politicitions at later time. I can I considered them two studies. And the fact that they even to a fact, the condition to it.			1	•
6 side? 7 A. Yes. 8 Q. The the sentence begins, 9 "In the Nurses' Health Study (NHS) 10 cohort, no overall association was found 11 between the use of perincal powder and 12 epithelial ovarian cancer" and it 13 cites the risk "or serous ovarian 14 cancer," and it cites the odds ratio. It 15 goes on to say, "However, there was a 16 40 percent with a 95 percent confidence 17 interval of 1.02 to 1.91 increased risk 18 for serous invasive ovarian cancers with 19 ever perincal use, which comprises 20 86 percent of the serous ovarian cancers 21 in the cohort." 22 Did I read that correctly? 23 A. You read it correctly. 24 Q. And that cites to the Gertig 25 A. You read it correctly. 26 A. Yes. The beginning of that 27 aparagraph say, "To date there has only 28 been one prospective study conducted." 29 This is 2013. And we've already 29 established there was a follow-up to that study in 2010 that wasn't included here. 29 Q. And that's precisely my 29 point. So here, the Houghton authors are citing to the Gertig study, not the Gates 20 The authors don't say that that follow-up information. 21 that follow-up information. 22 A. That's correct. And I would 23 consider it inappropriate not to mention that follow-up information. 20 Ms. CURRY: Object to the form. 21 Garden A. That's correct. And I would consider it inappropriate not to mention that follow-up information. 21 Garden A. They do. 22 Ms. CURRY: Object to the form. 23 Garden A. That's correct. And I would consider it inappropriate not to mention that follow-up information. 24 Garden A. They do. 25 Garden A. They do. 26 Ms. CURRY: Object to the form. 27 Grown A. They do. 28 Garden A. They do. 29 Ms. CURRY: Object to the form. 29 Ms. CURRY: Object to the form. 20 Ms. CURRY: Object to the form. 21 Garden A. They do. 22 THE WITNESS: I just think it's a mistake to leave out what that that they don't cite. 29 THE WITNESS: I just think it's a mistake to leave out what that they are the attach and that they don't cite. 29 THE WITNESS: I just think that they don't c			1	
7 A. Yes. 7 If you don't want to say one reversed it. Then you have to at least admit that there was two studies. It was Gertig and Gates. So the fact that they made that mistake from the beginning of that paragraph and follow it through with only talking about Gertig, yes, you're accurate — you read perfectly right what they said. But my point is that that's not an accurate statement. There was more than one. BY MS. GARBER: Q. So Nurses' Health Study was one study, right, with two publications? A. You read it correctly. 22 Did I read that correctly. 23 A. You read it correctly. 24 Q. And that eites to the Gertig 25 A. Yes. The beginning of that study, right; with two publications? 26 Sto fract that they made that mistake from the beginning of that mistake from the be				
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9 "In the Nurses' Health Study (NHS) 10 cohort, no overall association was found 11 between the use of perineal powder and 12 cpithelial ovarian cancer" and it 13 cites the risk "or serous ovarian 14 cancer," and it cites the odds ratio. It 15 goes on to say, "However, there was a 16 40 percent with a 95 percent confidence 17 interval of 1.02 to 1.91 increased risk 18 for serous invasive ovarian cancer with 19 ever perineal use, which comprises 20 86 percent of the serous ovarian cancers 21 in the cohort." 22 Did I read that correctly? 23 A. You read it correctly. 24 Q. And that cites to the Gertig 24 Study, right? 2 A. Yes. The beginning of that 3 paragraph says, "To date there has only 4 been one prospective study conducted." 5 This is 2013. And we've already 6 established there was a follow-up to that 7 study in 2010 that wasn't included here. Q. And that's precisely my 9 point. So here, the Houghton authors are 10 citing to the Gertig study, not the Gates 11 there's there is two different publications. You're right, they are 12 only citing one of them. Q. So the Nurses' Health Study 12 was one study with two publications or it 13 was two studies with two publications? 14 there's there is two different publications. You're right, they are 15 only citing one of them. Q. So the Nurses' Health Study 16 was two studies with two publications or it 17 was two studies with two publications? 18 MS. CURRY: Object to the 19 A. They do. MS. CURRY: Object to the 20 MS. CURRY: Object to the 21 form. 22 THE WITNESS: I just think 23 it's a mistake to leave out what 24 THE WITNESS: I just think 25 This is a mistake to leave out what 26 So I'm the Nurses' Health 27 So I'm the Nurses' Health 28 So I'm the Nurses' Health 29 So I'm the Nurses' Health 20 MB. CURRY: Object to the 21 talking about what percentage are 22 positive, what percentage are 23 negative. 24 talking about what percentage are 25 negative. 26 so the Nurses' Health Study 27 manural period to the study in 2010 that the form. 28			1	
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6 established there was a follow-up to that 7 study in 2010 that wasn't included here. 8 Q. And that's precisely my 9 point. So here, the Houghton authors are 10 citing to the Gertig study, not the Gates 11 study, correct? 12 A. That's correct. And I would 13 consider it inappropriate not to mention 14 that follow-up information. 15 Q. The authors don't say that 16 the Gates 2010 reversed the findings of 17 the Gertig study; rather, they cite those 18 data, don't they? 19 A. They do. 20 MS. CURRY: Object to the 19 A. They do. 21 Study was one prospective study 22 THE WITNESS: I just think 23 it's a mistake to leave out what	2	study, right? A. Yes. The beginning of that paragraph says, "To date there has only	2 3	there's there is two different publications. You're right, they are only citing one of them.
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20 MS. CURRY: Object to the 20 So I'm the Nurses' Health 21 Study was one prospective study 22 THE WITNESS: I just think 22 with with two publications. 23 it's a mistake to leave out what 23 And the fact that they don't cite	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. The beginning of that paragraph says, "To date there has only been one prospective study conducted." This is 2013. And we've already established there was a follow-up to that study in 2010 that wasn't included here. Q. And that's precisely my point. So here, the Houghton authors are citing to the Gertig study, not the Gates study, correct? A. That's correct. And I would consider it inappropriate not to mention that follow-up information. Q. The authors don't say that the Gates 2010 reversed the findings of the Gertig study; rather, they cite those	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	there's there is two different publications. You're right, they are only citing one of them. Q. So the Nurses' Health Study was one study with two publications or it was two studies with two publications? MS. CURRY: Object to the form. THE WITNESS: As you can see with my case-control lists for example, I still counted those as separate studies and you are talking about what percentage are positive, what percentage are negative. When, in fact, I had studies that were reported on the same populations at later time. I
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24 clearly this statement, "10 24 Gates, I see as a weakness to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. The beginning of that paragraph says, "To date there has only been one prospective study conducted." This is 2013. And we've already established there was a follow-up to that study in 2010 that wasn't included here. Q. And that's precisely my point. So here, the Houghton authors are citing to the Gertig study, not the Gates study, correct? A. That's correct. And I would consider it inappropriate not to mention that follow-up information. Q. The authors don't say that the Gates 2010 reversed the findings of the Gertig study; rather, they cite those data, don't they? A. They do. MS. CURRY: Object to the form. THE WITNESS: I just think	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	there's there is two different publications. You're right, they are only citing one of them. Q. So the Nurses' Health Study was one study with two publications or it was two studies with two publications? MS. CURRY: Object to the form. THE WITNESS: As you can see with my case-control lists for example, I still counted those as separate studies and you are talking about what percentage are positive, what percentage are negative. When, in fact, I had studies that were reported on the same populations at later time. I can I considered them two studies. So I'm the Nurses' Health Study was one prospective study with with two publications.
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	Page 382		Page 384
1	their their introduction.	1	A. I have to go back to the
2	BY MS. GARBER:	2	materials and methods to see if they
3	Q. You think they should have	3	asked. One second.
4	cited the Gates 2010 study?	4	No.
5	A. I think that's I think	5	Q. Okay. And while there is
6	that's it should make you pause when	6	duration of exposure, you don't know how
7	the only prospective study that you're	7	many women were exposed to long-term talc
8	quoting has this increased risk. And	8	defined by more than 20 years, do you,
9	then the women followed longer, the risk	9	this study doesn't report that data, does
10	goes away. It's worth mentioning I would	10	it?
11	think.	11	A. How many women had used it
12	Q. Well, Doctor, the Gates	12	for 20 or more years?
13	study is peer reviewed and published,	13	Q. Yes.
14	right?	14	A. I'd have to go to the
15	A. Yes.	15	results to check for that. Because it
16	Q. And the Penninkilampi is	16	was part of the questions.
17	peer reviewed and published, correct?	17	Q. All right. That's all
18	A. Yes.	18	right. I'll withdraw the question.
19	Q. And I know the Taher isn't	19	And turning to Page 4,
20	yet peer reviewed, but it it cites to	20	Table 2. It shows the number of women in
21	the Gertig study too, doesn't it?	21	the study who reported using talcum
22	A. Repeated	22	powder products on their genitals, right?
23	MS. CURRY: Object to the	23	A. Yes.
24	form.	24	Q. And how many women used
	Page 383		Page 385
1	THE WITNESS: mistakes	1	it let me catch up to you. How many
2	don't make it less of a mistake.	2	women were reporting using ten years or
3	BY MS. GARBER:	3	more?
4	Q. Okay. But but at least	4	A. 68.
5	the Gertig and the Penninkilampi are peer	5	Q. Not very many, is it?
6	reviewed and cite	6	MS. CURRY: Object to the
7	A. Some of so	7	form.
8	Q to Gertig	8	THE WITNESS: No.
9	A. Yes.	9	This you let me
10	Q is that true?	10	clarify. You're asking not how
10 11	Q is that true?A. Yes, yes.	10 11	clarify. You're asking not how many women used it for longer, but
10 11 12	Q is that true?A. Yes, yes.Q. Okay. Let's talk further	10 11 12	clarify. You're asking not how many women used it for longer, but how many women who developed
10 11 12 13	Q is that true?A. Yes, yes.Q. Okay. Let's talk furtherabout the Houghton study	10 11 12 13	clarify. You're asking not how many women used it for longer, but how many women who developed ovarian cancer that had used it.
10 11 12 13 14	 Q is that true? A. Yes, yes. Q. Okay. Let's talk further about the Houghton study A. Yes. 	10 11 12 13 14	clarify. You're asking not how many women used it for longer, but how many women who developed ovarian cancer that had used it. BY MS. GARBER:
10 11 12 13 14 15	 Q is that true? A. Yes, yes. Q. Okay. Let's talk further about the Houghton study A. Yes. Q the WHI study. The study 	10 11 12 13 14 15	clarify. You're asking not how many women used it for longer, but how many women who developed ovarian cancer that had used it. BY MS. GARBER: Q. Yeah.
10 11 12 13 14 15 16	 Q is that true? A. Yes, yes. Q. Okay. Let's talk further about the Houghton study A. Yes. Q the WHI study. The study enrolled 61,576 postmenopausal women, 	10 11 12 13 14 15 16	clarify. You're asking not how many women used it for longer, but how many women who developed ovarian cancer that had used it. BY MS. GARBER: Q. Yeah. A. That's 68. Yes.
10 11 12 13 14 15 16 17	 Q is that true? A. Yes, yes. Q. Okay. Let's talk further about the Houghton study A. Yes. Q the WHI study. The study enrolled 61,576 postmenopausal women, right? 	10 11 12 13 14 15 16 17	clarify. You're asking not how many women used it for longer, but how many women who developed ovarian cancer that had used it. BY MS. GARBER: Q. Yeah. A. That's 68. Yes. Q. Yeah. It's not very many
10 11 12 13 14 15 16 17	 Q is that true? A. Yes, yes. Q. Okay. Let's talk further about the Houghton study A. Yes. Q the WHI study. The study enrolled 61,576 postmenopausal women, right? A. I'm sorry 	10 11 12 13 14 15 16 17 18	clarify. You're asking not how many women used it for longer, but how many women who developed ovarian cancer that had used it. BY MS. GARBER: Q. Yeah. A. That's 68. Yes. Q. Yeah. It's not very many women in that study group, is it?
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10 11 12 13 14 15 16 17 18 19 20 21 22	Q is that true? A. Yes, yes. Q. Okay. Let's talk further about the Houghton study A. Yes. Q the WHI study. The study enrolled 61,576 postmenopausal women, right? A. I'm sorry Q. It's in the abstract under results? A. Yes. Q. Okay. And you don't do	10 11 12 13 14 15 16 17 18 19 20 21 22	clarify. You're asking not how many women used it for longer, but how many women who developed ovarian cancer that had used it. BY MS. GARBER: Q. Yeah. A. That's 68. Yes. Q. Yeah. It's not very many women in that study group, is it? MS. CURRY: Object to the form. THE WITNESS: Relative to? BY MS. GARBER:
10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q is that true? A. Yes, yes. Q. Okay. Let's talk further about the Houghton study A. Yes. Q the WHI study. The study enrolled 61,576 postmenopausal women, right? A. I'm sorry Q. It's in the abstract under results? A. Yes. Q. Okay. And you don't do you know when the women started using	10 11 12 13 14 15 16 17 18 19 20 21 22 23	clarify. You're asking not how many women used it for longer, but how many women who developed ovarian cancer that had used it. BY MS. GARBER: Q. Yeah. A. That's 68. Yes. Q. Yeah. It's not very many women in that study group, is it? MS. CURRY: Object to the form. THE WITNESS: Relative to? BY MS. GARBER: Q. Relative to 200,000?
10 11 12 13 14 15 16 17 18 19 20 21 22	Q is that true? A. Yes, yes. Q. Okay. Let's talk further about the Houghton study A. Yes. Q the WHI study. The study enrolled 61,576 postmenopausal women, right? A. I'm sorry Q. It's in the abstract under results? A. Yes. Q. Okay. And you don't do	10 11 12 13 14 15 16 17 18 19 20 21 22	clarify. You're asking not how many women used it for longer, but how many women who developed ovarian cancer that had used it. BY MS. GARBER: Q. Yeah. A. That's 68. Yes. Q. Yeah. It's not very many women in that study group, is it? MS. CURRY: Object to the form. THE WITNESS: Relative to? BY MS. GARBER:

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	Page 386		Page 388
1	200,000 women with ovarian cancer. He	1	BY MS. GARBER:
2	said you need 200,000 women total.	2	Q. Okay. Another limitation of
3	Q. Okay. Is 68 who developed	3	the study was that one-sided metric of
4	ovarian cancer a good amount that gives	4	only capturing duration. Do you agree
5		5	with that?
6	you confidence in these data?	6	
	MS. CURRY: Object to the	7	MS. CURRY: Object to the
7	form.		form.
8	THE WITNESS: You know, the	8	THE WITNESS: I think a
9	smaller the number, the wider the	9	perfect study would collect
10	confidence interval would be.	10	collect both. So yes.
11	BY MS. GARBER:	11	BY MS. GARBER:
12	Q. Is this a wide confidence	12	Q. It would be an optimal study
13	interval? You testified in the Ingham	13	to collect both, wouldn't it?
14	case it was, didn't you?	14	MS. CURRY: Object to the
15	A. That this is a wide	15	form.
16	interval?	16	THE WITNESS: Unfortunately
17	Q. Mm-hmm.	17	there is no such thing as an
18	A. Well, it crosses it's	18	optimal study. I could look at
19	wide enough, and it's in the wrong you	19	all every study I reviewed and
20	know, it crosses one, so it's not	20	pick up things that should have
21	statistically significant.	21	been done differently and better.
22	So that apparent reduction	22	And hopefully learn with the next
23	in the risk, that 2 percent reduction in	23	study design. But that's true for
24	the risk, I wouldn't trust it.	24	everything in my reliance list.
21	the risk, I wouldn't trust it.		every uning in my renamed nou
	Page 387		Page 389
1	Q. That's a limitation of the	1	BY MS. GARBER:
2	study, right, the wide confidence	2	Q. Let's see if we can work out
3	interval, in that few women few number	3	how this would work.
4	of women participants?	4	If you only captured
5	MS. CURRY: Object to the	l _	* *
6		5	duration of use and you said it was
	form.	5 6	duration of use and you said it was you used it ten years or more, a given
7		6 7	you used it ten years or more, a given
7	form. BY MS. GARBER:	6 7	you used it ten years or more, a given woman could have used it once a year on
7 8	form. BY MS. GARBER: Q. Right?	6 7 8	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know,
7 8 9	form. BY MS. GARBER: Q. Right? A. The few number of women	6 7 8 9	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct?
7 8 9 10	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what,	6 7 8 9 10	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct.
7 8 9 10 11	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants.	6 7 8 9 10 11	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with
7 8 9 10 11 12	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants. Q. The 68 women participants	6 7 8 9 10 11 12	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with this whole body of literature though, is
7 8 9 10 11 12 13	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants. Q. The 68 women participants calls into question the validity of this	6 7 8 9 10 11 12 13	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with this whole body of literature though, is this concept that you have any idea of
7 8 9 10 11 12 13 14	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants. Q. The 68 women participants calls into question the validity of this subgroup analysis, doesn't it, Doctor?	6 7 8 9 10 11 12 13 14	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with this whole body of literature though, is this concept that you have any idea of the dose at the tissue level.
7 8 9 10 11 12 13 14	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants. Q. The 68 women participants calls into question the validity of this subgroup analysis, doesn't it, Doctor? MS. CURRY: Object to the	6 7 8 9 10 11 12 13 14 15	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with this whole body of literature though, is this concept that you have any idea of the dose at the tissue level. I if you told me you used
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7 8 9 10 11 12 13 14 15 16 17	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants. Q. The 68 women participants calls into question the validity of this subgroup analysis, doesn't it, Doctor? MS. CURRY: Object to the form. THE WITNESS: If you're	6 7 8 9 10 11 12 13 14 15 16 17	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with this whole body of literature though, is this concept that you have any idea of the dose at the tissue level. I if you told me you used it everyday, and I'm a woman and I use it everyday and you take three shakes and I
7 8 9 10 11 12 13 14 15 16 17	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants. Q. The 68 women participants calls into question the validity of this subgroup analysis, doesn't it, Doctor? MS. CURRY: Object to the form. THE WITNESS: If you're the only analysis that was broken	6 7 8 9 10 11 12 13 14 15 16 17	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with this whole body of literature though, is this concept that you have any idea of the dose at the tissue level. I if you told me you used it everyday, and I'm a woman and I use it everyday and you take three shakes and I take one, we're really not getting to the
7 8 9 10 11 12 13 14 15 16 17 18	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants. Q. The 68 women participants calls into question the validity of this subgroup analysis, doesn't it, Doctor? MS. CURRY: Object to the form. THE WITNESS: If you're the only analysis that was broken down, you're saying the number of	6 7 8 9 10 11 12 13 14 15 16 17 18	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with this whole body of literature though, is this concept that you have any idea of the dose at the tissue level. I if you told me you used it everyday, and I'm a woman and I use it everyday and you take three shakes and I take one, we're really not getting to the heart of dose-response.
7 8 9 10 11 12 13 14 15 16 17 18 19 20	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants. Q. The 68 women participants calls into question the validity of this subgroup analysis, doesn't it, Doctor? MS. CURRY: Object to the form. THE WITNESS: If you're the only analysis that was broken down, you're saying the number of women with ten or more years is	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with this whole body of literature though, is this concept that you have any idea of the dose at the tissue level. I if you told me you used it everyday, and I'm a woman and I use it everyday and you take three shakes and I take one, we're really not getting to the heart of dose-response. And this this is a
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants. Q. The 68 women participants calls into question the validity of this subgroup analysis, doesn't it, Doctor? MS. CURRY: Object to the form. THE WITNESS: If you're the only analysis that was broken down, you're saying the number of women with ten or more years is 68. And when you say that's low,	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with this whole body of literature though, is this concept that you have any idea of the dose at the tissue level. I if you told me you used it everyday, and I'm a woman and I use it everyday and you take three shakes and I take one, we're really not getting to the heart of dose-response. And this this is a difficulty of all this topic. It's it's they are all limited. They are
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. BY MS. GARBER: Q. Right? A. The few number of women participants, it's it's actually what, 61,000 women participants. Q. The 68 women participants calls into question the validity of this subgroup analysis, doesn't it, Doctor? MS. CURRY: Object to the form. THE WITNESS: If you're the only analysis that was broken down, you're saying the number of women with ten or more years is 68. And when you say that's low,	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you used it ten years or more, a given woman could have used it once a year on her anniversary for all you know, correct? A. Correct. The the big problem with this whole body of literature though, is this concept that you have any idea of the dose at the tissue level. I if you told me you used it everyday, and I'm a woman and I use it everyday and you take three shakes and I take one, we're really not getting to the heart of dose-response. And this this is a difficulty of all this topic. It's it's they are all limited. They are

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	Page 390		Page 392
1	ovaries, and if it's getting to the	1	Because even in the cases of
2	ovaries from that dusting, what amount is	2	the particles that you find, I
3	getting to the ovaries. And so we're	3	have no idea how they got there.
4	playing a pseudoscience game with	4	There is there is a lot
5	dose-response.	5	of weakness just overall in this
6	This isn't really	6	whole area.
7	dose-response. Dose-response studies	7	So I would be less bothered
8	have to do with the level of what you're	8	by that if you gave me the
9	interested in at the tissue level. So we	9	epidemiology data that showed me a
10	can go through the stuff and talk about	10	20-fold increase. Then I'm less
11	these as weaknesses, but this whole body	11	reliant or feel like you it's
12	of literature is weakened by the	12	less necessary.
13	inability to know.	13	But in this situation where
14	I don't even know for sure	14	we've already gone through the
15	that it gets to the ovary from this way.	15	epidemiologic data earlier. And I
16	How much each women put into her	16	pointed out all the
17	dusted with is is totally random.	17	inconsistencies, as I describe. I
18	Q. And that's what I want to	18	call a 50/50 split inconsistent.
19	really get at here because you're aware	19	And now you get to this, and
20	of data where there is talc found in the	20	you can point out all the
21	ovarian tissue, both tumor and	21	weaknesses. But I'm saying
22	non-diseased, right?	22	there's weaknesses in all these
23	A. In women who report exposure	23	studies going through.
24	and women who don't report exposure.	24	
	Page 391		Page 393
1	Q. Okay. And you're aware	1	BY MS. GARBER:
2	of from your work in individual cases,	2	Q. Doctor, do you think that
3	that there are women who report talcum	3	the data which shows that there is
4	powder product exposure who have found	4	asbestos and talc in ovarian tissue
5	asbestos and talc in their ovaries,	5	provides a biologically plausible
6	correct?	6	mechanism of carcinogenicity?
7	MS. CURRY: Object to the	7	MS. CURRY: Object to the
8	form.	8	form.
9	THE WITNESS: There are	9	THE WITNESS: Just the
10	women who report neither of the	10	presence of it in the
11	two who find particles that	11	BY MS. GARBER:
12	diagnosed as talc or asbestos in	12	Q. Yeah.
13	their ovaries.	13	A. This is part of the problem
14	So you're getting to my	14	with this whole area. The presence
15	point, is that the it falls	15	Q. Doctor, that wasn't my
16	apart with the biologic	16	question.
17	plausibility because of all these	17	A. No. The presence
18	weaknesses, because you can't	18	Q. Yes or no.
19	really assess dose at the tissue	19	A. No. The presence of it does
20	level, because women who report	20	not
21	no because there isn't a good	21	Q. You don't think that
22	correlation between reported	22	A. Just the mere presence of
23	history of exposure and finding	23	the particle does not prove a causal
24	the particles.	24	relationship.

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	Page 394		Page 396
1	Q. And you've seen paper after	1	not just in talc. I would look at
2	published paper wherein the study authors	2	that as a ridiculous situation in
3	who are actually studying talcum powder	3	any statement.
4	exposure, talc product exposure and	4	We're here and studying this
5	ovarian cancer, are stating that there is	5	because people say they they
6	a biologically plausible mechanism,	6	describe finding talc there. But
7	correct?	7	that's that's not the burden of
8	MS. CURRY: Object to the	8	proof.
9	form.	9	BY MS. GARBER:
10	THE WITNESS: The	10	Q. Okay. Do you think the
11	statements of	11	burden of proof is absolute proof that
12	BY MS. GARBER:	12	the talc got there through perineal
13	Q. You just disagree with them?	13	dusting?
14	MS. CURRY: Object to the	14	A. Does it matter how it got
15	form.	15	there if it's a carcinogen?
16	THE WITNESS: But the in	16	Q. If it's a carcinogen, does
17	no situation, in medicine that I	17	it matter?
18	can think of would a the mere	18	A. It matters maybe for you,
19	presence of a molecule or particle	19	because of the nature of this litigation.
20	or whatever in a certain organ be	20	But if talc caused cancer of
21	•	21	the ovary, I could care less how it got
22	evidence of its carcinogenicity.	22	there. I'd want to you know, the fact
	That's not biologic	23	that it's there is an issue. You'd be
23	plausibility.	24	
24	Just its mere presence	24	able to prove that it's a carcinogen.
	Page 395		
	rage 393		Page 397
1		1	
1 2	isn't.	1 2	So even the cases, the
2	isn't. And the fact the fact	2	So even the cases, the Heller study, you mentioned it earlier,
2 3	isn't. And the fact the fact that so many people are saying	2 3	So even the cases, the Heller study, you mentioned it earlier, 24 women, 12 reporting a history of
2 3 4	isn't. And the fact the fact that so many people are saying that is exactly what I'm talking	2 3 4	So even the cases, the Heller study, you mentioned it earlier, 24 women, 12 reporting a history of exposure, 12 not reporting a history of
2 3 4 5	isn't. And the fact the fact that so many people are saying that is exactly what I'm talking about when people overstate the	2 3 4 5	So even the cases, the Heller study, you mentioned it earlier, 24 women, 12 reporting a history of exposure, 12 not reporting a history of exposure. Not only is there not a
2 3 4 5 6	isn't. And the fact the fact that so many people are saying that is exactly what I'm talking about when people overstate the findings of their studies, just	2 3 4 5 6	So even the cases, the Heller study, you mentioned it earlier, 24 women, 12 reporting a history of exposure, 12 not reporting a history of exposure. Not only is there not a correlation, if I go back and I read the
2 3 4 5 6 7	isn't. And the fact the fact that so many people are saying that is exactly what I'm talking about when people overstate the findings of their studies, just the just the finding it there	2 3 4 5 6 7	So even the cases, the Heller study, you mentioned it earlier, 24 women, 12 reporting a history of exposure, 12 not reporting a history of exposure. Not only is there not a correlation, if I go back and I read the paper, I think the fiber counts are even
2 3 4 5 6 7 8	isn't. And the fact the fact that so many people are saying that is exactly what I'm talking about when people overstate the findings of their studies, just the just the finding it there in no way implies biologic	2 3 4 5 6 7 8	So even the cases, the Heller study, you mentioned it earlier, 24 women, 12 reporting a history of exposure, 12 not reporting a history of exposure. Not only is there not a correlation, if I go back and I read the paper, I think the fiber counts are even higher in the women without a reported
2 3 4 5 6 7 8	isn't. And the fact the fact that so many people are saying that is exactly what I'm talking about when people overstate the findings of their studies, just the just the finding it there in no way implies biologic plausibility.	2 3 4 5 6 7 8 9	So even the cases, the Heller study, you mentioned it earlier, 24 women, 12 reporting a history of exposure, 12 not reporting a history of exposure. Not only is there not a correlation, if I go back and I read the paper, I think the fiber counts are even higher in the women without a reported history.
2 3 4 5 6 7 8 9	isn't. And the fact the fact that so many people are saying that is exactly what I'm talking about when people overstate the findings of their studies, just the just the finding it there in no way implies biologic plausibility. BY MS. GARBER:	2 3 4 5 6 7 8 9	So even the cases, the Heller study, you mentioned it earlier, 24 women, 12 reporting a history of exposure, 12 not reporting a history of exposure. Not only is there not a correlation, if I go back and I read the paper, I think the fiber counts are even higher in the women without a reported history. Q. We're going to look at that
2 3 4 5 6 7 8 9 10	isn't. And the fact the fact that so many people are saying that is exactly what I'm talking about when people overstate the findings of their studies, just the just the finding it there in no way implies biologic plausibility. BY MS. GARBER: Q. That's your opinion, right?	2 3 4 5 6 7 8 9 10	So even the cases, the Heller study, you mentioned it earlier, 24 women, 12 reporting a history of exposure, 12 not reporting a history of exposure. Not only is there not a correlation, if I go back and I read the paper, I think the fiber counts are even higher in the women without a reported history. Q. We're going to look at that paper in a minute. But, Doctor, don't
2 3 4 5 6 7 8 9 10 11	isn't. And the fact the fact that so many people are saying that is exactly what I'm talking about when people overstate the findings of their studies, just the just the finding it there in no way implies biologic plausibility. BY MS. GARBER: Q. That's your opinion, right? A. That's like saying	2 3 4 5 6 7 8 9 10 11	So even the cases, the Heller study, you mentioned it earlier, 24 women, 12 reporting a history of exposure, 12 not reporting a history of exposure. Not only is there not a correlation, if I go back and I read the paper, I think the fiber counts are even higher in the women without a reported history. Q. We're going to look at that paper in a minute. But, Doctor, don't the authors suggest why that is, why the
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	Page 398		Page 400
1	high fiber burden in the non-exposed	1	Q. No, from the paraffin
2	group?	2	processing, right?
3	MS. CURRY: Object to the	3	MS. CURRY: Object to the
4	form.	4	form.
5	THE WITNESS: If you	5	THE WITNESS: Contamination
6	equal if you think and suggest	6	at some point. I mean, is it
7	and hypothesize are the same, I	7	contamination during processing?
8	would agree with you. You see	8	Is it from surgical gloves from
9	suggestion in science means	9	past surgeries? Is it from my
10	there's some evidence to make you	10	point is, this is all conjecture
11	think this is the case.	11	because there's all these possible
12	Otherwise, you're just it's	12	explanations. And people can
13	conjecture and it's hypothesis.	13	suggest what they want in their
14	BY MS. GARBER:	14	introduction to their paper.
15	Q. And you read the Cramer	15	But I'm more interested in
16	paper. Didn't the Cramer paper suggest	16	the actual science that goes to
17	that address the issues, the	17	the heart of trying to figure
18	shortcomings of the Heller data, that	18	out you know.
19	there may be surface contamination that	19	But again, you're we
20	goes in and mixes with the talc or	20	started this conversation by
21	asbestos in the tissue which accounts for	21	talking about the mere presence of
22	the unexposed group?	22	talc particles in the ovary.
23	MS. CURRY: Object to the	23	BY MS. GARBER:
24	form.	24	Q. Okay. So we'll get back to
	Page 399		Page 401
1	BY MS. GARBER:	1	the cohorts, and then we'll move onto the
2	Q. Don't they suggest that?	2	biologic plausibility.
3	A. Yes. You're saying that one	3	But you would agree with me,
4	author says it's from one explanation and	4	wouldn't you, that there are study
5	Cramer says it's from another	5	peer-reviewed study authors that set
6	explanation, so yeah, they're all	6	forth that there is a biologically
7	suggesting these different things. One	7	plausible mechanism. You just disagree
8	person saying it is diapering as a child.	8	with that, correct?
9	The next person is saying it's	9	MS. CURRY: Object to the
10	contamination. The truth is no one	10	form.
11	knows.	11	THE WITNESS: The reason
12	Q. Did Cramer say it's coming	12	that I have to disagree with it
13	from contamination, or did Cramer say	13	is
14	that you need to do polarized light to	14	BY MS. GARBER:
15	make sure that you're adequately counting	15	Q. Doctor, my question is yes
16	what's really deeply embedded in the	16	or no.
17	tissue and not what's coming in the	17	A. I disagree with it that
18	surface?	18	there's it's conjecture.
19	MS. CURRY: Object to the	19	Q. That's fine. I understand
20	form.	20	your opinion.
21	THE WITNESS: Because he	21	I just want you to answer my
22	thinks what's on the surface is	22	question, which is you agree that there
23	contamination.	23	are study authors that say there's
24	BY MS. GARBER:	24	biologically plausible mechanism, you
		I	

	Page 402		Page 404
1	just disagree with that?	1	Q. Doctor, this study involved
2	MS. CURRY: Object to the	2	only 41,654 women, correct?
3	form.	3	A. 41,000 women, and 600.
4	BY MS. GARBER:	4	Q. Yeah. And the talc exposure
5	Q. Correct?	5	metric was to ask women about the
6	A. I disagree with it. Many	6	frequency of their talcum powder exposure
7	people disagree with it.	7	within in their genitals within the
8	Q. Okay. And there's many	8	prior 12 months, correct?
9	people who agree with it, right?	9	A. Let me just confirm that.
10	MS. CURRY: Object to the	10	Q. It's under the methods on
11	form.	11	the abstract, Doctor.
12	THE WITNESS: Based on	12	A. Can you repeat your
13	pseudoscience.	13	statement just now?
14	BY MS. GARBER:	14	Q. Doctor, was one of the
15	Q. Is the Health Canada	15	limitations that the the exposure was
16	pseudoscience?	16	talcum powder exposure to the genitals
17	A. No, I wouldn't describe	17	within the prior 12 months. Do you agree
18	Health Canada as pseudoscience in	18	with that?
19	totality. But if you if you want to	19	A. Yes. Along along with
20	read through it and ask what things I	20	frequency. I I thought you were
21	agree with and what things I don't, I	21	yes.
22	think I've already told you that when	22	Q. Okay. And the follow-up
23	when authors make statements in their	23	there in the abstract was 6.6 years,
24	preambles, in their introductions, that	24	right?
	1		6
	Page 403		Page 405
_			
1	aren't based on data but they state it as	1	A. Yes.
2	aren't based on data but they state it as a fact, watch out for what's coming	2	A. Yes.Q. And you don't know when the
2	a fact, watch out for what's coming later. Q. Okay. We'll go to	2	Q. And you don't know when the
2 3 4 5	a fact, watch out for what's coming later.	2 3 4 5	Q. And you don't know when the women started using talc, right?
2 3 4 5 6	a fact, watch out for what's coming later. Q. Okay. We'll go to	2 3 4	Q. And you don't know when the women started using talc, right? A. No.
2 3 4 5	a fact, watch out for what's coming later. Q. Okay. We'll go to A. If somebody starts off like that. Q. We'll go to Health Canada	2 3 4 5	Q. And you don't know when the women started using tale, right?A. No.Q. Like the others?
2 3 4 5 6 7 8	a fact, watch out for what's coming later. Q. Okay. We'll go to A. If somebody starts off like that. Q. We'll go to Health Canada and see what they said about biologic	2 3 4 5 6 7 8	 Q. And you don't know when the women started using talc, right? A. No. Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching
2 3 4 5 6 7 8	a fact, watch out for what's coming later. Q. Okay. We'll go to A. If somebody starts off like that. Q. We'll go to Health Canada and see what they said about biologic plausibility.	2 3 4 5 6 7 8	 Q. And you don't know when the women started using talc, right? A. No. Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer?
2 3 4 5 6 7 8 9	a fact, watch out for what's coming later. Q. Okay. We'll go to A. If somebody starts off like that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in	2 3 4 5 6 7 8 9	Q. And you don't know when the women started using talc, right? A. No. Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	a fact, watch out for what's coming later. Q. Okay. We'll go to A. If somebody starts off like that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through? Q. I'm sorry, I I misspoke. The Gonzalez study? A. Yes, I did.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And you don't know when the women started using talc, right? A. No. Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for ovarian cancer? A. No. Because it's only one study suggesting it.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	a fact, watch out for what's coming later. Q. Okay. We'll go to A. If somebody starts off like that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through? Q. I'm sorry, I I misspoke. The Gonzalez study? A. Yes, I did. Q. And I'll mark that as	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And you don't know when the women started using talc, right? A. No. Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for ovarian cancer? A. No. Because it's only one study suggesting it. Q. And, Doctor, any of the
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	23	represent to you I created. It may have	23	Penninkilampi paper and the Berge paper

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	Page 410		Page 412
1	agree with that?	1	A. It's a mistake then that's
2	A. Can we talk we spoke	2	not only made by Penninkilampi.
3	earlier about the overlap in the number,	3	Q. Right. The you have not
4	the studies on these three studies	4	performed a meta-analysis yourself, have
5	Q. Doctor, I	5	you?
6	A so it would be strange	6	A. No, I have not.
7	for the same study design to come out	7	Q. And you certainly do not
8	with discrepant results when they are	8	have any evidence, do you, Dr. Holcomb,
9	looking at largely the same studies.	9	that would support your contention that
10	So yes, the the point	10	if the study authors had used Gates 2010
11	that these are showing consistency is not	11	instead of Gertig, it would have changed
12	going towards proving causality. Because	12	the outcome?
13	you would just expect that if you	13	MS. CURRY: Object to the
14	subjected the same studies to this study	14	form.
15	design, you really should come up with	15	THE WITNESS: I'm not so
16	very similar results.	16	sure about that.
17	Q. So you agree then, Doctor,	17	BY MS. GARBER:
18	that the meta-analyses both with	18	Q. You would be speculating,
19	epithelial ovarian cancer and serous	19	wouldn't you, because you haven't done
20	ovarian cancer are consistent, correct?	20	that study, right?
	· · · · · · · · · · · · · · · · · · ·	1	• •
21 22	MS. CURRY: Object to the	21 22	MS. CURRY: Object to the
	form.		form.
23	THE WITNESS: I believe they	23	THE WITNESS: But that
24	are very similar studies.	24	wasn't your question. Can you
	Page 411		Page 413
1	BY MS. GARBER:	1	repeat your question?
2	Q. Is the answer to my question	2	BY MS. GARBER:
3	yes?	3	Q. Sure. I'll ask it this way.
4	A. Yes. I believe that when	4	A. No, I wanted you to repeat,
5	you examine the same studies you will get	5	because I you're saying speculation,
6	very similar answers.	6	but I believe you asked me to speculate.
7	Q. With regard to your	7	Q. Sure. I'll ask you a better
8	criticisms of the Penninkilampi paper,	8	question.
9	did you write the journal voicing your	9	You have not performed a
10	concerns about this study?	10	meta-analysis using the Gates rather than
11	A. No.	11	the Gertig for the ever use with
12	Q. Did you attempt to contact	12	epithelial ovarian cancer, true?
13	the study authors?	13	A. As I stated earlier I have
14	A. No.	14	not performed any meta-analysis, so that
15	Q. And you indicate in your	15	would be true for that specific question
16	expert report that the study authors in	16	as well.
17	Penninkilampi should have included the	17	Q. And there are no study
18	Gates study instead of the Gertig 2000	18	authors that have indicated it's a
19	study; is that correct?	19	mistake to include Gertig rather than
	A. Yes.	20	Gates 2010, correct?
20	11. 1 00.	1	
20 21	O. And there are other study	1 21	MS CURRY: Object to the
21	Q. And there are other study authors that we've seen that have	21	MS. CURRY: Object to the form
21 22	authors that we've seen that have	22	form.
21	· ·	1	<u> </u>

104 (Pages 410 to 413)

	Page 414		Page 416
1	Canada didn't say that, did they?	1	am?
2	A. Health Canada included	2	A. I'm looking at A, yes.
3	Gates, so they didn't make the mistake.	3	Q. Yeah, okay. Very good. And
4	Q. But they didn't say it was a	4	with the legend below, it indicates that
5	mistake for other study authors to	5	2-A is any perineal talc use, right?
6	include	6	
7		7	That's a ever/never metric, right?
8	A. The fact that they didn't	1	A. That's what they say down
	make the same mistake, I've got to	8	here, yes.
9	believe that they thought it was	9	Q. Right. And as we see, Gates
10	worthwhile to include the study. So yes,	10	is not an ever/never, is it?
11	they thought it was a mistake not to	11	A. Neither is Wu, et al., 2015
12	include it. They included it.	12	and they included that
13	Q. Well, they didn't say it was	13	Q. I thought you might say
14	a mistake, did they?	14	that. Let's look at Wu. Or let's look
15	A. Because they did it. Why	15	at what Penninkilampi says about Wu.
16	would they	16	A. Okay.
17	Q. Doctor, you are speculating,	17	Q. Let's go to Page 43 of the
18	aren't you?	18	Penninkilampi paper. And here in the
19	MS. CURRY: Object to the	19	middle of the paragraph.
20	form.	20	Do you see where I am?
21	BY MS. GARBER:	21	A. Yes.
22	Q. As as we talked about	22	Q. It says, "Note that the Wu,
23	earlier	23	et al., 2015 include results from Wu
24	MS. SHARKO: Was that a	24	2009. However, only Wu, et al., 2009,
	Page 415		Page 417
1	question the doctor should answer?	1	reported on non-perineal talc use total
2	BY MS. GARBER:	2	lifetime applications and long-term talc
3	Q. Did you answer my question?		
	Q. Did you allower my question:	3	use, hence data were extracted from Wu
4		3 4	· ·
4	A. I'm a little confused if you		2015 for any perineal use outcome from
4 5	A. I'm a little confused if you can repeat.	4 5	2015 for any perineal use outcome from the Wu, et al., 2009, for the" "for
4	A. I'm a little confused if you can repeat. Q. I'll just withdraw and move	4	2015 for any perineal use outcome from the Wu, et al., 2009, for the" "for the three other outcomes previously
4 5 6 7	A. I'm a little confused if you can repeat. Q. I'll just withdraw and move on.	4 5 6 7	2015 for any perineal use outcome from the Wu, et al., 2009, for the" "for the three other outcomes previously mentioned."
4 5 6 7 8	A. I'm a little confused if you can repeat. Q. I'll just withdraw and move on. Doctor, the exposure for	4 5 6 7 8	2015 for any perineal use outcome from the Wu, et al., 2009, for the" "for the three other outcomes previously mentioned." So the authors in
4 5 6 7 8 9	A. I'm a little confused if you can repeat. Q. I'll just withdraw and move on. Doctor, the exposure for Gertig was ever/never, right?	4 5 6 7 8 9	2015 for any perineal use outcome from the Wu, et al., 2009, for the" "for the three other outcomes previously mentioned." So the authors in Penninkilampi were trying to keep the
4 5 6 7 8 9	A. I'm a little confused if you can repeat. Q. I'll just withdraw and move on. Doctor, the exposure for Gertig was ever/never, right? A. Right.	4 5 6 7 8 9	2015 for any perineal use outcome from the Wu, et al., 2009, for the" "for the three other outcomes previously mentioned." So the authors in Penninkilampi were trying to keep the data consistent and keep with ever/never
4 5 6 7 8 9 10 11	A. I'm a little confused if you can repeat. Q. I'll just withdraw and move on. Doctor, the exposure for Gertig was ever/never, right? A. Right. Q. And the exposure for Gates	4 5 6 7 8 9 10 11	2015 for any perineal use outcome from the Wu, et al., 2009, for the" "for the three other outcomes previously mentioned." So the authors in Penninkilampi were trying to keep the data consistent and keep with ever/never exposure, not change the metric, right,
4 5 6 7 8 9 10 11	A. I'm a little confused if you can repeat. Q. I'll just withdraw and move on. Doctor, the exposure for Gertig was ever/never, right? A. Right. Q. And the exposure for Gates was not ever/never, was it?	4 5 6 7 8 9 10 11	2015 for any perineal use outcome from the Wu, et al., 2009, for the" "for the three other outcomes previously mentioned." So the authors in Penninkilampi were trying to keep the data consistent and keep with ever/never exposure, not change the metric, right, Doctor?
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	Page 418		Page 420
1	record while you read that?	1	they were similar to IARC,
2	A. Well, I guess I don't I'm	2	possibly a carcinogen.
3	trying to figure out, is he saying that	3	BY MS. GARBER:
4	he only looked at the patients in Wu 2015	4	Q. Health Canada?
5	that were actually included in the Wu	5	A. Yes.
6	2009 for that	6	Q. Okay. Let's look at Health
7	Q. Doctor, if you don't	7	Canada.
8	understand what the authors are saying	8	A. Sure. I have it open.
9	A. I don't.	9	Q. Doctor, if you can turn to
10	Q we'll just move on.	10	Page 21, and right above 6.2, exposure
11	A. Yeah, I don't understand.	11	assessment, it indicates, "The most
12	Q. Okay. All right. Let's	12	recent meta-analysis detailed above,
13	move on.	13	Taher 2018, and consistent with the Hill
14	A. Because it seems to me that	14	criteria suggest a small but consistent
15	he would only include Wu 2009.	15	statistically significant positive
16	Q. Doctor, I don't have a	16	association between ovarian cancer and
17	question pending.	17	perineal talc exposure. Further
18	A. If Wu 2009 only had the ever	18	available data are indicative of a causal
19	use, why have Wu 2015 cited if you only	19	effect."
20	used the patients on 2009?	20	Did I read that correctly?
21	MS. GARBER: Objection to	21	A. Yes. Apparently they
22	strike as nonresponsive.	22	disagree with IARC.
23	BY MS. GARBER:	23	Q. They looked at more data
24	Q. Doctor, I did not have a	24	than IARC looked at, didn't they?
	Page 419		Page 421
1	question pending.	1	A. I'll tell you, I'm not I
2	Are you aware, Doctor, that	2	have to tell you that they do say causal
3	the Health Canada considered the	3	effect here. And yet if I have time to
4	collective meta-analyses in coming to	4	read through this, I can show you where
5	their causal opinion regarding genital	5	they say it's a possible carcinogen.
6	tale and risk of ovarian cancer?	6	And I'm not sure how you can
7	A. Yes.	7	say that something is a possible
8	MS. CURRY: Object to the	8	carcinogen and that it is causative of
9	form.	9	cancer in the same paper.
10	BY MS. GARBER:	10	But if you can give if
11	Q. And are you aware that the	11	you give me the time I can show you where
12	IARC 2010 considered the meta-analyses	12	it says it's a possible carcinogen.
13	that were then available at the time in	13	MS. GARBER: Let's take a
14	coming to their findings regarding talc	14	break.
15	and its carcinogenicity?	15	THE VIDEOGRAPHER: Okay.
16	A. Yes.	16	The time the time is 5:01 p.m.
17	Q. And what was Health Canada's	17	Off the record.
18	conclusion about tale and risk of ovarian	18	(Short break.)
19	cancer? Did they come to a causal	19	THE VIDEOGRAPHER: We are
20	opinion?	20	back on the record. The time is
21	MS. CURRY: Object to the	21	5:22 p.m.
22	form.	22	BY MS. GARBER:
23	THE WITNESS: My memory was	23	Q. Just so I'm clear, Doctor,
24	that they said it's possibly	24	it's your opinion that there is no

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talc powder products can translocate or a migrate from the perineum to the conductation of the perineum to the fallopian tubes and ovaries in your opinion? A. I want to make sure I'm understanding the question. I there that has the ability to do it. So I'm		Page 422		Page 424
2	1	biologically plausible mechanism by which	1	can happen.
that has the ability to do it. So I'm not ask - I'm not sure if you're asking 11 is it just possible or is it is any evidence to suggest that it can happen. 12 evidence to suggest that it can happen. 13 Because if if you're 14 saying is it possible, I'd have to say 15 yes. If you're saying is there any evidence suggesting it could happen, I yes. If you're saying is there any evidence suggesting it could happen, I yes. If you're saying is there any evidence suggesting it could happen, I yes. If you're saying is there any evidence suggesting it could happen, I yes. If you're saying is there any evidence suggesting it could happen, I yes. If you're saying is there any evidence suggesting it could happen, I yes. If you're saying is there any evidence suggesting it could happen, I yes. If you're saying is there any evidence suggesting it could happen, I yes. If you're saying is there any evidence suggesting it could happen, I yes. If you're say no. Q. Doctor, is there a lia gould have to say no. Page 423 A. I would make to say it would be unlikely that that the female Page 423 A. I wes. Q. And if we could turn to Page 5 in the middle of the page where the Page 425 Page 425 Page 425 A. I'm sorry, give me one second. 5 Page 4 - 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, yes. Q. "While there exists no direct proof of tale and ovarian carcinogenesis, the potential for particulates to migrate from the perincum and vagina to the perincum and vagina to the perincum of making a very, very strong statement. Indisputable, and yet there's no studies	2		1	
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10	9			
11 is it just possible or is it—is any 12 evidence to suggest that it can happen. 12 BY MS. GARBER: 13 Because if —if you're 13 14 saying is it possible, l'd have to say 14 saying is it possible, l'd have to say 14 saying is it possible, l'd have to say 15 yes. If you're saying is there any 15 evidence suggesting it could happen, I 16 would have to say no. 17 would have to say no. 17 And, Doctor, this document appears on your reference list, doesn't it? 18 And, Doctor, this document appears on your reference list, doesn't it? 18 And, Doctor, this document appears on your reference list, doesn't it? 18 And, Doctor, this document appears on your reference list, doesn't it? A. Yes. Q. And if we could turn to Page 5 in the middle of the page where the Page 423 Page 425 A. I'm sorry, give me one second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of tale and ovarian carcinogenesis, the potential for particulates to migrate from the perineum to the fallopian tubes and ovaries, right? M. S. CURRY: Object to the form. THE WITNESS: I'm assuming y			1	
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24 never seen any data suggesting it snowing that perineal falc can make if to	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the perineum to the fallopian tubes and ovaries, right? MS. CURRY: Object to the form. THE WITNESS: I'm assuming you I'm assuming you struck your original question because they are making the statements	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian carcinogenesis, the potential for particulates to migrate from the perineum and vagina to the peritoneal cavity is indisputable." Do you agree with that? A. No. This is an example of what I was saying earlier. Someone making a very, very strong statement.
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	Page 426		Page 428
1	the ovaries. And yet Dr. Epstein is	1	Q. You don't recall that?
2	saying it's indisputable.	2	A. No. If you can just point
3	So that's not a judgment	3	it out to me again.
4	call. That's not reasonable doctors	4	Q. Just so I'm clear, you
5	having different opinions. That's just	5	disagree with the position of the FDA as
5 6	wrong. It can't be indisputable without	6	indicated in the April 1st, 2014, paper
7	a single study showing its ability.	7	on migration, right?
<mark>7</mark> 8	Q. You you disagree with FDA	8	A. I'm I'm disagreeing again
9	on the issue of migration being	9	with a Dr. Steven Musser, Ph.D., who is
10	indisputable, correct?	10	the deputy director for Scientific
11	A. No, I I disagree with	11	Operation Center For Food Safety and
12	Dr. Epstein.	12	Applied Nutrition. That's who I'm
13	Q. And this letter comes from	13	disagreeing with.
14	FDA, right?	14	Q. So going back to the Health
15	A. Written by Dr. Epstein,	15	Canada which we've previously marked as
16	right?	16	Exhibit 11.
17	Q. Right. And	17	Do you see starting at
18	A. I'm sorry, no, it's written	18	Pages 19 through 21, the study authors of
19	by it seems to be written by Steven	19	the Health Canada assessment are
20	Musser.	20	analyzing the scientific evidence in the
21	Q. Right. It's written to	21	context of the Bradford Hill criteria?
22	Dr. Epstein.	22	A. Is there a specific area
23	A. It's written to Dr so I	23	you'd like me to read or?
24	guess I'm disagreeing with Steven M.	24	Q. No.
			7 400
		l	Page 4.29 I
1		1	Page 429
1 2	Musser, Ph.D., who I I don't even know	1 2	Do you do you see that
2	Musser, Ph.D., who I I don't even know what area of practice he's he's the	2	Do you do you see that that's what that portion of the document
2 3	Musser, Ph.D., who I I don't even know what area of practice he's he's the director of operations for Center of Food	2 3	Do you do you see that that's what that portion of the document is doing? It's an analysis of the
2 3 4	Musser, Ph.D., who I I don't even know what area of practice he's he's the director of operations for Center of Food Safety and Applied Nutrition.	2 3 4	Do you do you see that that's what that portion of the document is doing? It's an analysis of the evidence in the context of the Bradford
2 3 4 5	Musser, Ph.D., who I I don't even know what area of practice he's he's the director of operations for Center of Food Safety and Applied Nutrition. I I don't know if he	2 3 4 5	Do you do you see that that's what that portion of the document is doing? It's an analysis of the evidence in the context of the Bradford Hill criteria.
2 3 4 5 6	Musser, Ph.D., who I I don't even know what area of practice he's he's the director of operations for Center of Food Safety and Applied Nutrition. I I don't know if he knows more about the female genital tract	2 3 4 5 6	Do you do you see that that's what that portion of the document is doing? It's an analysis of the evidence in the context of the Bradford Hill criteria. Is that true?
2 3 4 5 6 7	Musser, Ph.D., who I I don't even know what area of practice he's he's the director of operations for Center of Food Safety and Applied Nutrition. I I don't know if he knows more about the female genital tract than I do, but my my guess is probably	2 3 4 5 6 7	Do you do you see that that's what that portion of the document is doing? It's an analysis of the evidence in the context of the Bradford Hill criteria. Is that true? A. They are addressing
2 3 4 5 6 7 8	Musser, Ph.D., who I I don't even know what area of practice he's he's the director of operations for Center of Food Safety and Applied Nutrition. I I don't know if he knows more about the female genital tract than I do, but my my guess is probably not. And if he's calling it indisputable	2 3 4 5 6 7 8	Do you do you see that that's what that portion of the document is doing? It's an analysis of the evidence in the context of the Bradford Hill criteria. Is that true? A. They are addressing translocation in this section. I I
2 3 4 5 6 7	Musser, Ph.D., who I I don't even know what area of practice he's he's the director of operations for Center of Food Safety and Applied Nutrition. I I don't know if he knows more about the female genital tract than I do, but my my guess is probably not. And if he's calling it indisputable in the absence of any study showing that	2 3 4 5 6 7 8 9	Do you do you see that that's what that portion of the document is doing? It's an analysis of the evidence in the context of the Bradford Hill criteria. Is that true? A. They are addressing translocation in this section. I I assume that's part of a larger
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2 3 4 5 6 7 8 9 10 11 12 13	Musser, Ph.D., who I I don't even know what area of practice he's he's the director of operations for Center of Food Safety and Applied Nutrition. I I don't know if he knows more about the female genital tract than I do, but my my guess is probably not. And if he's calling it indisputable in the absence of any study showing that it happens, that by definition is just wrong. Q. Doctor, you would agree,	2 3 4 5 6 7 8 9 10 11 12 13	Do you do you see that that's what that portion of the document is doing? It's an analysis of the evidence in the context of the Bradford Hill criteria. Is that true? A. They are addressing translocation in this section. I I assume that's part of a larger Q. Doctor, is is strength of the association a criteria of Bradford Hill?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Musser, Ph.D., who I I don't even know what area of practice he's he's the director of operations for Center of Food Safety and Applied Nutrition. I I don't know if he knows more about the female genital tract than I do, but my my guess is probably not. And if he's calling it indisputable in the absence of any study showing that it happens, that by definition is just wrong. Q. Doctor, you would agree, would you not, that in the Health Canada, the study authors, as part of the Bradford Hill have concluded that there is a biologically plausible mechanism by which talcum powder products can migrate from the perineum to the ovaries? MS. CURRY: Object to the form. THE WITNESS: I'd have	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Do you do you see that that's what that portion of the document is doing? It's an analysis of the evidence in the context of the Bradford Hill criteria. Is that true? A. They are addressing translocation in this section. I I assume that's part of a larger Q. Doctor, is is strength of the association a criteria of Bradford Hill? A. Yes. Q. And consistency is a criteria of Bradford Hill? A. Yes. Which makes me think I'm looking at a different page. I'm sorry, which page are you on? Q. 19 through 20. A. 19.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Musser, Ph.D., who I I don't even know what area of practice he's he's the director of operations for Center of Food Safety and Applied Nutrition. I I don't know if he knows more about the female genital tract than I do, but my my guess is probably not. And if he's calling it indisputable in the absence of any study showing that it happens, that by definition is just wrong. Q. Doctor, you would agree, would you not, that in the Health Canada, the study authors, as part of the Bradford Hill have concluded that there is a biologically plausible mechanism by which talcum powder products can migrate from the perineum to the ovaries? MS. CURRY: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Do you do you see that that's what that portion of the document is doing? It's an analysis of the evidence in the context of the Bradford Hill criteria. Is that true? A. They are addressing translocation in this section. I I assume that's part of a larger Q. Doctor, is is strength of the association a criteria of Bradford Hill? A. Yes. Q. And consistency is a criteria of Bradford Hill? A. Yes. Which makes me think I'm looking at a different page. I'm sorry, which page are you on? Q. 19 through 20.
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	Page 430		Page 432
1	sorry. I was looking someplace else.	1	"The presence of talc in the ovaries has
2	If you can just give me some	2	been documented," and they cite to the
3	idea when we turn the page, if you're	3	Heller 1996 paper, correct?
4	talking top or bottom, I can probably get	4	A. True.
5	there faster.	5	Q. And they go on to say, "This
6	Q. Doctor, Pages 19 through 21,	6	evidence" "This evidence of retrograde
7	the authors of Health Canada are	7	transport supports the biologic
8	analyzing the scientific evidence in the	8	plausibility of the association between
9	context of the Bradford Hill aspects or	9	perineal talc application and ovarian
10	criteria, are they not?	10	exposure; however, the specific
11	A. Yes.	11	mechanisms in the cascade of molecular
12	Q. Thank you. And if you turn	12	events by which talc cause ovarian cancer
13	to Page 20 sorry, Page 21, under the	13	have not been identified." And then they
14	heading of "Biologic Plausibility." You	14	cite to Taher 2018.
15	agree that that's one of the aspects of	15	Did I read that correctly?
16	Bradford Hill, right?	16	A. You read it correctly, yes.
17	A. Yes. And the first line	17	Q. And Doctor, the Saed 2019
18	they have is, "Particles of talc are	18	paper does, in fact, provide the
19	hypothesized to migrate into the pelvis."	19	molecular events by which talc can cause
20	And that's very different from the	20	ovarian cancer. Can we agree with that?
21	statement of the other doctor who said	21	MS. CURRY: Object to the
22	it's indisputable.	22	form.
23	MS. GARBER: Motion to	23	THE WITNESS: No.
24	strike as nonresponsive.	24	BY MS. GARBER:
	Page 431		Page 433
1	BY MS. GARBER:	1	Q. Okay. You have read the
2	Q. Doctor, did I ask you a	2	Saed 2019 paper now?
3	question?	3	A. I have.
4	A. No.	4	Q. Not at the time of your
5	Q. Should I get my time back	5	report, but you have?
6	that you just wasted?	6	MS. CURRY: Object to the
7	A. It's a small amount of time.	7	form.
8	MS. CURRY: Object to the	8	THE WITNESS: I have.
9	form.	9	BY MS. GARBER:
10	BY MS. GARBER:	10	Q. Did it provide a molecular
11	Q. All day long it's not a	11	basis by which talc can cause ovarian
12	small amount of time, is it, Doctor?	12	cancer?
	So let me ask you this,	13	A. It proposed a theory without
13			
14	under the biologic plausibility section	14	proving it. So when you say provide, I'm
14 15	under the biologic plausibility section of the Bradford Hill analysis as	15	assuming you mean that it proposed a
14 15 16	under the biologic plausibility section of the Bradford Hill analysis as conducted by Health Canada, the study	15 16	assuming you mean that it proposed a theory and then showed that that that
14 15 16 17	under the biologic plausibility section of the Bradford Hill analysis as conducted by Health Canada, the study authors indicate that, "Particles of talc	15 16 17	assuming you mean that it proposed a theory and then showed that that that molecular change actually transformed
14 15 16 17 18	under the biologic plausibility section of the Bradford Hill analysis as conducted by Health Canada, the study authors indicate that, "Particles of talc are hypothesized to migrate into the	15 16 17 18	assuming you mean that it proposed a theory and then showed that that that molecular change actually transformed cells and causes cancer.
14 15 16 17 18	under the biologic plausibility section of the Bradford Hill analysis as conducted by Health Canada, the study authors indicate that, "Particles of talc are hypothesized to migrate into the pelvis and ovarian tissue, causing	15 16 17 18 19	assuming you mean that it proposed a theory and then showed that that that molecular change actually transformed cells and causes cancer. Q. You used the word "prove."
14 15 16 17 18 19 20	under the biologic plausibility section of the Bradford Hill analysis as conducted by Health Canada, the study authors indicate that, "Particles of talc are hypothesized to migrate into the pelvis and ovarian tissue, causing irritation and inflammation."	15 16 17 18 19 20	assuming you mean that it proposed a theory and then showed that that that molecular change actually transformed cells and causes cancer. Q. You used the word "prove." So the study provided statistically
14 15 16 17 18 19 20 21	under the biologic plausibility section of the Bradford Hill analysis as conducted by Health Canada, the study authors indicate that, "Particles of talc are hypothesized to migrate into the pelvis and ovarian tissue, causing irritation and inflammation." I read that correctly,	15 16 17 18 19 20 21	assuming you mean that it proposed a theory and then showed that that that molecular change actually transformed cells and causes cancer. Q. You used the word "prove." So the study provided statistically significant findings of an association in
14 15 16 17 18 19 20 21	under the biologic plausibility section of the Bradford Hill analysis as conducted by Health Canada, the study authors indicate that, "Particles of talc are hypothesized to migrate into the pelvis and ovarian tissue, causing irritation and inflammation." I read that correctly, right?	15 16 17 18 19 20 21 22	assuming you mean that it proposed a theory and then showed that that that molecular change actually transformed cells and causes cancer. Q. You used the word "prove." So the study provided statistically significant findings of an association in support of the experiment hypothesis,
14 15 16 17 18 19 20 21	under the biologic plausibility section of the Bradford Hill analysis as conducted by Health Canada, the study authors indicate that, "Particles of talc are hypothesized to migrate into the pelvis and ovarian tissue, causing irritation and inflammation." I read that correctly,	15 16 17 18 19 20 21	assuming you mean that it proposed a theory and then showed that that that molecular change actually transformed cells and causes cancer. Q. You used the word "prove." So the study provided statistically significant findings of an association in

109 (Pages 430 to 433)

	Page 434		Page 436
1	MS. CURRY: Object to the	1	of
2	form.	2	A. I'd have to look at it
3	THE WITNESS: I disagree.	3	again.
4	If the hypothesis is to say that	4	Q. Okay. And we'll do that.
5	inflammation was the cause of	5	So you see at the end of the
6	ovarian cancer, and in your study	6	Bradford Hill analysis and the Health
7	you prove something like CA-125	7	Canada assessment, the authors conclude
8	goes up, and you consider that	8	that the data are indicative of a causal
9	proof of your hypothesis, I'd have	9	effect, right?
10	to say that's not the case.	10	A. That's what they state, yes.
11	BY MS. GARBER:	11	Q. And so the authors have
12	Q. Doctor, was that the only	12	found that there is a biologically
13	finding of the Saed 2019 paper?	13	plausible mechanism by which talc can
14	A. I'd be happy to look at the	14	migrate and tale can induce inflammation,
15	rest of it.	15	correct?
16	Q. Well, you seem to remember	16	MS. CURRY: Object to the
17	the CA-125 that was a corollary finding,	17	form.
18	wasn't it?	18	THE WITNESS: The authors
19	MS. CURRY: Object to the	19	believe that Heller's findings are
20	form.	20	evidence of retrograde
21	THE WITNESS: If you have	21	translocation of talc.
22	the paper, again, I'd be happy to	22	And that is a big
23	look at the others.	23	assumption. And so I can
24	BY MS. GARBER:	24	understand how they would put
			understand now they would put
	Page 435		Page 437
			rage 437
1	Q. Can you think of any other	1	those things together. But
2	Q. Can you think of any other molecular findings that were reported?	1 2	those things together. But there's no proof in Heller's study
2	Q. Can you think of any other molecular findings that were reported? A. I remember		those things together. But there's no proof in Heller's study where the talc particles came
2 3 4	Q. Can you think of any other molecular findings that were reported?A. I rememberQ. For instance ROS or NOS	2	those things together. But there's no proof in Heller's study where the talc particles came from.
2 3 4 5	Q. Can you think of any other molecular findings that were reported? A. I remember Q. For instance ROS or NOS increasing with talc application?	2 3 4 5	those things together. But there's no proof in Heller's study where the talc particles came from. And so they're saying this
2 3 4 5 6	Q. Can you think of any other molecular findings that were reported? A. I remember Q. For instance ROS or NOS increasing with talc application? MS. CURRY: Object to the	2 3 4 5 6	those things together. But there's no proof in Heller's study where the talc particles came from. And so they're saying this evidence of retrograde transports
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Can you think of any other molecular findings that were reported? A. I remember Q. For instance ROS or NOS increasing with talc application? MS. CURRY: Object to the form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded that reactive oxygen species was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	those things together. But there's no proof in Heller's study where the talc particles came from. And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz paper with regard to genital tract
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Can you think of any other molecular findings that were reported? A. I remember Q. For instance ROS or NOS increasing with talc application? MS. CURRY: Object to the form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded that reactive oxygen species was actually going up.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	those things together. But there's no proof in Heller's study where the talc particles came from. And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz paper with regard to genital tract peristalsis, have you?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Can you think of any other molecular findings that were reported? A. I remember Q. For instance ROS or NOS increasing with talc application? MS. CURRY: Object to the form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded that reactive oxygen species was actually going up. BY MS. GARBER:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	those things together. But there's no proof in Heller's study where the talc particles came from. And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz paper with regard to genital tract peristalsis, have you? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Can you think of any other molecular findings that were reported? A. I remember Q. For instance ROS or NOS increasing with talc application? MS. CURRY: Object to the form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded that reactive oxygen species was actually going up. BY MS. GARBER: Q. What was the conclusion of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	those things together. But there's no proof in Heller's study where the talc particles came from. And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz paper with regard to genital tract peristalsis, have you? A. No. Q. Are you aware that there is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Can you think of any other molecular findings that were reported? A. I remember Q. For instance ROS or NOS increasing with talc application? MS. CURRY: Object to the form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded that reactive oxygen species was actually going up. BY MS. GARBER:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	those things together. But there's no proof in Heller's study where the talc particles came from. And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz paper with regard to genital tract peristalsis, have you? A. No.

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	Page 438		Page 440
1	during the woman's cycle?	1	A. True. And I've explained
2	MS. CURRY: Object to the	2	exactly how they make that connection.
3	form.	3	Q. Thank you.
4	THE WITNESS: Yes. Of	4	Let's talk about
5	course I am. Does that mean that	5	inflammation. You are aware that there
6	tale is able to retrograde	6	is study data and peer-reviewed studies
7	translocate? I'm not sure. This	7	that indicate a biologically plausible
8	is what often happens. People	8	mechanism by which talc can induce
9	cite studies that don't prove what	9	inflammation, correct?
10	the the point that they're	10	A. Is there a specific
11	trying to make.	11	MS. CURRY: Object to the
12	BY MS. GARBER:	12	form.
13	Q. Okay. There's been data	13	THE WITNESS: study you'd
14	that have shown that particulate in a	14	like to review?
15	woman's genital tract can travel	15	BY MS. GARBER:
16	retrograde from the vagina to the	16	Q. No, I'm just asking you,
17	fallopian tubes and the ovaries, correct?	17	have you seen peer-reviewed studies that
18	You are aware of this data?	18	indicate talc can induce inflammation?
19	A. If you put her if you put	19	A. I have not seen studies that
20	her in the lithotomy position and give	20	I've read that I've been convinced. If
21	her a little oxytocin and yes, under	21	you have a specific study that you'd like
22	those very unnatural conditions, there's	22	to review, I'm happy to go over
23	studies supporting that.	23	Q. Have you seen the Ness data?
24	What I'm saying is I don't	24	Either '99 or 2000?
21	what thi saying is t don't	24	Eluler 99 of 2000:
	Page 439		Page 441
-			
1	see a single study and maybe you can	1	A. I did it's on my reliance
2	see a single study and maybe you can quote one for me where they dusted the	1 2	A. I did it's on my reliance list. If we can pull it out I'd be glad
2	quote one for me where they dusted the	2	list. If we can pull it out I'd be glad
2	quote one for me where they dusted the perineum of women and shown that that	2 3	list. If we can pull it out I'd be glad to go through it again with you.
2 3 4	quote one for me where they dusted the perineum of women and shown that that tale gets to the ovaries.	2 3 4	list. If we can pull it out I'd be glad to go through it again with you. Q. Did the Ness authors
2 3 4 5	quote one for me where they dusted the perineum of women and shown that that talc gets to the ovaries. Q. Based on what we know about	2 3 4 5	list. If we can pull it out I'd be glad to go through it again with you. Q. Did the Ness authors conclude that there was a biologically
2 3 4 5 6	quote one for me where they dusted the perineum of women and shown that that talc gets to the ovaries. Q. Based on what we know about talc and its carcinogenicity that would	2 3 4 5 6	list. If we can pull it out I'd be glad to go through it again with you. Q. Did the Ness authors conclude that there was a biologically plausible mechanism by which talc can
2 3 4 5 6 7	quote one for me where they dusted the perineum of women and shown that that talc gets to the ovaries. Q. Based on what we know about talc and its carcinogenicity that would be an unethical study to conduct at this	2 3 4 5 6 7	list. If we can pull it out I'd be glad to go through it again with you. Q. Did the Ness authors conclude that there was a biologically plausible mechanism by which talc can induce inflammation? A. Again, I'd be happy to read the paper if you have it.
2 3 4 5 6 7 8	quote one for me where they dusted the perineum of women and shown that that talc gets to the ovaries. Q. Based on what we know about talc and its carcinogenicity that would be an unethical study to conduct at this point, wouldn't it?	2 3 4 5 6 7 8	list. If we can pull it out I'd be glad to go through it again with you. Q. Did the Ness authors conclude that there was a biologically plausible mechanism by which talc can induce inflammation? A. Again, I'd be happy to read
2 3 4 5 6 7 8 9	quote one for me where they dusted the perineum of women and shown that that talc gets to the ovaries. Q. Based on what we know about talc and its carcinogenicity that would be an unethical study to conduct at this point, wouldn't it? MS. CURRY: Object to the	2 3 4 5 6 7 8	list. If we can pull it out I'd be glad to go through it again with you. Q. Did the Ness authors conclude that there was a biologically plausible mechanism by which talc can induce inflammation? A. Again, I'd be happy to read the paper if you have it.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	quote one for me where they dusted the perineum of women and shown that that talc gets to the ovaries. Q. Based on what we know about talc and its carcinogenicity that would be an unethical study to conduct at this point, wouldn't it? MS. CURRY: Object to the form. MR. MIZGALA: Object to the form. THE WITNESS: Not if I would say not for a woman who's currently using talc. BY MS. GARBER: Q. Doctor, you would agree with me, wouldn't you, that there are study authors, peer-reviewed study authors, and in addition Health Canada, who have concluded that there is a biologically plausible mechanism by which talc can	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	list. If we can pull it out I'd be glad to go through it again with you. Q. Did the Ness authors conclude that there was a biologically plausible mechanism by which talc can induce inflammation? A. Again, I'd be happy to read the paper if you have it. Q. You're not sure? MS. CURRY: Object to the form. THE WITNESS: Oh, I don't remember everything off my reliance list off the top of my head, no. BY MS. GARBER: Q. Doctor, is it your opinion that is it your opinion that there is not a biologically plausible mechanism to support talc can migrate from the genitals to the ovaries and tubes because
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	quote one for me where they dusted the perineum of women and shown that that talc gets to the ovaries. Q. Based on what we know about talc and its carcinogenicity that would be an unethical study to conduct at this point, wouldn't it? MS. CURRY: Object to the form. MR. MIZGALA: Object to the form. THE WITNESS: Not if I would say not for a woman who's currently using talc. BY MS. GARBER: Q. Doctor, you would agree with me, wouldn't you, that there are study authors, peer-reviewed study authors, and in addition Health Canada, who have concluded that there is a biologically	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	list. If we can pull it out I'd be glad to go through it again with you. Q. Did the Ness authors conclude that there was a biologically plausible mechanism by which talc can induce inflammation? A. Again, I'd be happy to read the paper if you have it. Q. You're not sure? MS. CURRY: Object to the form. THE WITNESS: Oh, I don't remember everything off my reliance list off the top of my head, no. BY MS. GARBER: Q. Doctor, is it your opinion that is it your opinion that there is not a biologically plausible mechanism to support talc can migrate from the

	Page 442		Page 444
1	form.	1	A. I'm assuming this is the
2	THE WITNESS: Please repeat	2	results of the meta-analysis that hasn't
3	that again.	3	been published?
4	BY MS. GARBER:	4	Q. Yes.
5	Q. Sure.	5	A. Yes, that's what they say.
6	Do you base your opinion	6	Q. All right. And then a
7	that talcum powder products don't migrate	7	couple lines down it says, "This might be
8	to the ovaries based on tubal ligation	8	attributed to the fact that tubal
9	and hysterectomy data?	9	ligation is usually performed at an
10	MS. CURRY: Object to the	10	earlier age, thus preventing entry of
11	form.	11	talc into the reproductive tract earlier
12	THE WITNESS: No. I base	12	and prolonged exposure to tale, compared
13	the fact that I don't have any	13	to hysterectomy that is performed later
14	proof of talc being able to	14	in life where higher exposure has already
15	migrate to the ovaries under	15	taken place."
16	normal situations. The tubal	16	It goes on to say, "In a
17	ligation data and the	17	recent meta-analysis," and then it cites
18	inconsistency of its protective	18	70, "The authors reported a negative
19	impact makes me question even	19	association with tubal ligation and
20	further.	20	hysterectomy with risk of ovarian
21	BY MS. GARBER:	21	cancer."
22	Q. Doctor, if you could pull	22	Did I read that correctly?
23	out Taher 2018, Page 2. Do you see under	23	A. Yes, you've read everything
24	the results there	24	very well so far.
			•
	Page 443		Page 445
1	A. I'm sorry Page 2.	1	Q. All right.
2	A. I'm sorry Page 2.Q that the study authors	2	Q. All right.A. It's that private schooling.
2 3	A. I'm sorry Page 2.		Q. All right.A. It's that private schooling.Q. And and the authors go on
2 3 4	A. I'm sorry Page 2.Q that the study authors	2 3 4	Q. All right.A. It's that private schooling.Q. And and the authors go on to say as to the study that the authors
2 3 4 5	A. I'm sorry Page 2. Q that the study authors indicate that the most recent meta-analysis found a negative association with tubal ligation. That's	2 3 4 5	Q. All right. A. It's that private schooling. Q. And and the authors go on to say as to the study that the authors there stated a highly plausible mechanism
2 3 4 5 6	A. I'm sorry Page 2. Q that the study authors indicate that the most recent meta-analysis found a negative association with tubal ligation. That's what the authors say, right?	2 3 4 5 6	Q. All right. A. It's that private schooling. Q. And and the authors go on to say as to the study that the authors there stated a highly plausible mechanism for the association
2 3 4 5	A. I'm sorry Page 2. Q that the study authors indicate that the most recent meta-analysis found a negative association with tubal ligation. That's	2 3 4 5	 Q. All right. A. It's that private schooling. Q. And and the authors go on to say as to the study that the authors there stated a highly plausible mechanism
2 3 4 5 6 7 8	A. I'm sorry Page 2. Q that the study authors indicate that the most recent meta-analysis found a negative association with tubal ligation. That's what the authors say, right? A. This is an unpublished, un-peer-reviewed paper.	2 3 4 5 6 7 8	Q. All right. A. It's that private schooling. Q. And and the authors go on to say as to the study that the authors there stated a highly plausible mechanism for the association A. I'm sorry yes. As suggested by the author. Suggested.
2 3 4 5 6 7 8	A. I'm sorry Page 2. Q that the study authors indicate that the most recent meta-analysis found a negative association with tubal ligation. That's what the authors say, right? A. This is an unpublished, un-peer-reviewed paper. Q. That's what the authors say	2 3 4 5 6 7 8 9	Q. All right. A. It's that private schooling. Q. And and the authors go on to say as to the study that the authors there stated a highly plausible mechanism for the association A. I'm sorry yes. As suggested by the author. Suggested. Q. Right. "Involving the
2 3 4 5 6 7 8 9	A. I'm sorry Page 2. Q that the study authors indicate that the most recent meta-analysis found a negative association with tubal ligation. That's what the authors say, right? A. This is an unpublished, un-peer-reviewed paper. Q. That's what the authors say in this paper, true?	2 3 4 5 6 7 8 9	Q. All right. A. It's that private schooling. Q. And and the authors go on to say as to the study that the authors there stated a highly plausible mechanism for the association A. I'm sorry yes. As suggested by the author. Suggested. Q. Right. "Involving the blocking of ascent of such agents such as
2 3 4 5 6 7 8 9 10	A. I'm sorry Page 2. Q that the study authors indicate that the most recent meta-analysis found a negative association with tubal ligation. That's what the authors say, right? A. This is an unpublished, un-peer-reviewed paper. Q. That's what the authors say in this paper, true? A. In this unpublished	2 3 4 5 6 7 8 9 10	Q. All right. A. It's that private schooling. Q. And and the authors go on to say as to the study that the authors there stated a highly plausible mechanism for the association A. I'm sorry yes. As suggested by the author. Suggested. Q. Right. "Involving the blocking of ascent of such agents such as talc to the ovaries."
2 3 4 5 6 7 8 9 10 11 12	A. I'm sorry Page 2. Q that the study authors indicate that the most recent meta-analysis found a negative association with tubal ligation. That's what the authors say, right? A. This is an unpublished, un-peer-reviewed paper. Q. That's what the authors say in this paper, true? A. In this unpublished un-peer-reviewed paper, yes.	2 3 4 5 6 7 8 9 10 11 12	Q. All right. A. It's that private schooling. Q. And and the authors go on to say as to the study that the authors there stated a highly plausible mechanism for the association A. I'm sorry yes. As suggested by the author. Suggested. Q. Right. "Involving the blocking of ascent of such agents such as talc to the ovaries." Again, you disagree with
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	Page 446		Page 448
1	And and I find, outside	1	fact that the NSAID data do not support
2	of this unpublished meta-analysis, when	2	reduction of risk of ovarian cancer?
3	you get to the individual studies it	3	MS. CURRY: Object to the
4	becomes much less consistent on this	4	form.
5	protective impact of tubal ligation with	5	THE WITNESS: The main
6	regard to talc.	6	reason why I hold that opinion is
7	MS. GARBER: Objection.	7	because I have seen no evidence of
8	Motion to strike as nonresponsive.	8	chronic inflammation in the
9	BY MS. GARBER:	9	genital tract from perineal use of
10	Q. Doctor, if you could turn	10	talc.
11	back to Health Canada and Page 18. And	11	In the Heller study, in the
12	I'll just point to where I'm reading,	12	case that they looked for evidence
13	Doctor. Right here.	13	of clinical information, and
14	Do you see where I am?	14	and we know what it looks like
15	Doctor, it reads: "There is	15	with tale, because there's years
16	support for an association of	16	of using it in pleurodesis, it
17	inflammation and increased risk of	17	causes granulomas.
18	ovarian cancer." And it cites to the	18	I we we present every
19	National Academy of Sciences, Engineering	19	STIC lesion, a serous tubular
20	and Medicine in 2016 in the Rasmussen	20	intraepithelial carcinoma at
		21	•
21	paper.	22	Cornell. We present it as part of our tumor board. And so I've seen
22	Doctor, that's what these	23	a lot of STIC lesions. I've seen
23	study authors who did an analysis	24	
24	A. Can can I'm sorry,	24	a lot of p53 signatures.
	Page 447		Page 449
1	I'll let you finish.	1	I've not ever seen a case
		_	i ve not ever seen a case
2	Q concluded about the mode	2	with a granuloma or any evidence
2 3	Q concluded about the mode of action, correct?		
	7	2	with a granuloma or any evidence
3	of action, correct?	2 3	with a granuloma or any evidence of granulomatous inflammation or
3 4	of action, correct? MS. CURRY: Object to the	2 3 4	with a granuloma or any evidence of granulomatous inflammation or any other sort of inflammation,
3 4 5	of action, correct? MS. CURRY: Object to the form.	2 3 4 5	with a granuloma or any evidence of granulomatous inflammation or any other sort of inflammation, and so that's the real the the other thing that you're
3 4 5 6	of action, correct? MS. CURRY: Object to the form. THE WITNESS: Yes, and	2 3 4 5 6	with a granuloma or any evidence of granulomatous inflammation or any other sort of inflammation, and so that's the real the
3 4 5 6 7	of action, correct? MS. CURRY: Object to the form. THE WITNESS: Yes, and interestingly, I I would be	2 3 4 5 6 7	with a granuloma or any evidence of granulomatous inflammation or any other sort of inflammation, and so that's the real the the other thing that you're mentioning, the inconsistency of whether antiinflammatories reduce
3 4 5 6 7 8	of action, correct? MS. CURRY: Object to the form. THE WITNESS: Yes, and interestingly, I I would be glad to look at the Rasmussen	2 3 4 5 6 7 8	with a granuloma or any evidence of granulomatous inflammation or any other sort of inflammation, and so that's the real the the other thing that you're mentioning, the inconsistency of whether antiinflammatories reduce the risk of ovarian cancer just
3 4 5 6 7 8	of action, correct? MS. CURRY: Object to the form. THE WITNESS: Yes, and interestingly, I I would be glad to look at the Rasmussen paper. I believe it was actually	2 3 4 5 6 7 8 9	with a granuloma or any evidence of granulomatous inflammation or any other sort of inflammation, and so that's the real the the other thing that you're mentioning, the inconsistency of whether antiinflammatories reduce
3 4 5 6 7 8 9	of action, correct? MS. CURRY: Object to the form. THE WITNESS: Yes, and interestingly, I I would be glad to look at the Rasmussen paper. I believe it was actually a paper that was negative, that	2 3 4 5 6 7 8 9	with a granuloma or any evidence of granulomatous inflammation or any other sort of inflammation, and so that's the real the the other thing that you're mentioning, the inconsistency of whether antiinflammatories reduce the risk of ovarian cancer just further confirms my my belief. But it's really the fact
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	Page 450		Page 452
1	slides?	1	at the time of precancer, I've not
2	A. Yes.	2	seen it. And if it's not there in
3	Q. And	3	the precancerous phase, when was
4	A. I would argue in in	4	it there?
5	ovarian cancer cases as well, I don't see	5	BY MS. GARBER:
6	granulomas.	6	Q. Is it your opinion that all
7	Q. You mean macroscopically	7	epithelial ovarian cancers begin in the
8	when you're doing surgery?	8	fallopian tube?
9	A. No, I mean microscopically.	9	A. No.
10	I also scrub out and look at all my	10	Q. Okay. Let's talk about the
11	frozen sections. And we present every	11	NSAIDs, the NSAID data.
12	new patient in a multi-disciplinary tumor	12	You've looked at some
13	board where we look at the slides. So	13	studies about NSAIDs and their effect
14	there's not an ovarian cancer patient	14	upon the risk of
15	that I take care of that I haven't seen	15	A. Yes.
16	her histologic slides.	16	Q ovarian cancer right?
17	Q. Have you seen testimony	17	A. Yes, I have.
18	where there is strike that.	18	Q. Would you agree with me that
19	Have you seen data that	19	the aspirin data seem to indicate a
20	would suggest that you're not seeing	20	decreased risk in ovarian cancer?
21	evidence of acute inflammation because	21	MS. CURRY: Object to the
22	the tale and its effects have been	22	form.
23	subsumed by tumor? In other words,	23	THE WITNESS: I'm not sure
24	that's a snapshot in time when there's	24	
21	that's a shapshot in time when there's	24	if that's consistent in every
	Page 451		Page 453
1	carcinogenic transformation, and what	1	in every study. I just want to
2	you're seeing over here years later	2	get to my report in that area, if
3	you're not going to see the evidence of	3	that's okay.
4	the chronic inflammation, correct?	4	BY MS. GARBER:
5	MS. CURRY: Object to the	5	Q. Okay. Doctor, shall we go
6	form.	6	off the record?
7	THE WITNESS: Maybe you	7	A. You can. It's not going to
8	misunderstood my description of	8	take me long.
9	what we do. I said look at every	9	THE VIDEOGRAPHER: The time
10	invasive cancer and we present	10	is 5:49. Going off the record.
11	every STIC.	11	(Brief pause.)
12	And so that's precancer.	12	THE VIDEOGRAPHER: The time
13	That is a precursor to high grade	13	is 5:49 p.m. Back on the record.
14	serous ovarian cancer. And now we	14	THE WITNESS: So Bonovas, et
15	believe there's a p53 signature	15	al., is a meta-analysis that
16	that's even earlier. And I will	16	showed antiinflammatory drug use
17	tell you that I've never seen any	17	did not reduce ovarian cancer.
18	evidence of inflammation in any of	18	Ni, et al., did a pooled
	those lesions, nor have I read of	19	analysis of 13 case-control
19	,	1	studies, one clinical trial, three
	anybody showing granulomatous	20	
20	anybody showing granulomatous inflammation in any of those	20	
20 21	inflammation in any of those	1	cohort studies. Also found no
20 21 22	inflammation in any of those lesions.	21	cohort studies. Also found no efforts of an association between
20 21	inflammation in any of those	21 22	cohort studies. Also found no

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	Page 454		Page 456
1	association between non-aspirin	1	cancer to take an NSAID, Tylenol well,
2	NSAID use and ovarian cancer.	2	Tylenol really hasn't shown much
3	BY MS. GARBER:	3	difference. But even aspirin.
4	Q. Doctor, did I have a	4	That's different from a
5	question pending?	5	woman who has or a man who has
6	A. You had asked me yeah.	6	familial adenomatous polyposis. There's
7	You did. That's why we went off.	7	certain situations where the data is so
8	Remember I was looking for the	8	strong that you can prevent cancer, it's
9	Q. Okay. Have you seen the	9	actually recommended to use aspirin to
10	I don't know how to pronounce it	10	prevent it. And we don't do that in GYN
11	Q-I-A-O, 2018, study with regard to	11	oncology.
12	with regard to aspirin and its effects on	12	And so I'd have to ask you,
13	ovarian cancer?	13	not only do I not believe this, but why
14	A. I have not.	14	is the GYN oncology not recommending
15	Q. Have you seen Trabert 2013	15	NSAID and aspirin use if it is so proven
16	study wherein the study authors found	16	that it decreases ovarian cancer risk?
17	that use of antiinflammatory aspirin was	17	It would be
18	associated with a reduction of risk of	18	MS. GARBER: Objection.
19	ovarian cancer?	19	Objection. Motion to strike as
20	A. I believe that	20	nonresponsive.
21	MS. CURRY: Object to the	21	BY MS. GARBER:
22	form.	22	Q. Doctor, you're talking in
23	THE WITNESS: I believe	23	paragraphs, and you're not answering my
24	that's in my my report that's	24	question. I'm going to just ask you to
	Page 455		Page 457
1	saying to show the	1	indulge me, please.
2	inconsistencies. I gave you two	2	MS. CURRY: I disagree.
3	examples of studies, one including	3	BY MS. GARBER:
4	meta-analysis, and showing no	4	Q. My question
5	reduced ovarian cancer, and the	5	MS. CURRY: That was
6	studies that you mentioned that	6	directly responsive to the
7	show that there was a reduction.	7	question.
8	BY MS. GARBER:	8	BY MS. GARBER:
9	Q. Do you agree, Doctor, that	9	Q. My question was, do you
10	there are data on both sides for both	10	agree that there are data for aspirin and
11	aspirin and nonsteroidal	11	NSAIDs that go both ways, they decrease
12	antiinflammatories that go both ways? In	12	the risk, and other studies do not show
		1 1 2	1 0
13	other words, there's some data that show	13	that?
14	a decreased risk of ovarian cancer and	14	A. The reason why for speaking
14 15	a decreased risk of ovarian cancer and some data that do not for both aspirin	14 15	A. The reason why for speaking in paragraphs
14 15 16	a decreased risk of ovarian cancer and some data that do not for both aspirin and NSAIDs?	14 15 16	A. The reason why for speaking in paragraphs Q. I didn't ask you why.
14 15 16 17	a decreased risk of ovarian cancer and some data that do not for both aspirin and NSAIDs? A. I do believe that if there	14 15 16 17	 A. The reason why for speaking in paragraphs Q. I didn't ask you why. A is because it's still
14 15 16 17 18	a decreased risk of ovarian cancer and some data that do not for both aspirin and NSAIDs? A. I do believe that if there was powerful enough data to support the	14 15 16 17 18	A. The reason why for speaking in paragraphs Q. I didn't ask you why. A is because it's still clearly stated in my report
14 15 16 17 18	a decreased risk of ovarian cancer and some data that do not for both aspirin and NSAIDs? A. I do believe that if there was powerful enough data to support the use of antiinflammatories to prevent the	14 15 16 17 18 19	A. The reason why for speaking in paragraphs Q. I didn't ask you why. A is because it's still clearly stated in my report Q. Doctor, I didn't ask you why
14 15 16 17 18 19 20	a decreased risk of ovarian cancer and some data that do not for both aspirin and NSAIDs? A. I do believe that if there was powerful enough data to support the use of antiinflammatories to prevent the deadliest GYN malignancy, this would be a	14 15 16 17 18 19 20	A. The reason why for speaking in paragraphs Q. I didn't ask you why. A is because it's still clearly stated in my report Q. Doctor, I didn't ask you why you're speaking in paragraphs.
14 15 16 17 18 19 20 21	a decreased risk of ovarian cancer and some data that do not for both aspirin and NSAIDs? A. I do believe that if there was powerful enough data to support the use of antiinflammatories to prevent the deadliest GYN malignancy, this would be a common recommendation for patients to	14 15 16 17 18 19 20 21	A. The reason why for speaking in paragraphs Q. I didn't ask you why. A is because it's still clearly stated in my report Q. Doctor, I didn't ask you why you're speaking in paragraphs. A. But it says so in my report.
14 15 16 17 18 19 20 21	a decreased risk of ovarian cancer and some data that do not for both aspirin and NSAIDs? A. I do believe that if there was powerful enough data to support the use of antiinflammatories to prevent the deadliest GYN malignancy, this would be a common recommendation for patients to use. We don't tell BRCA mutation	14 15 16 17 18 19 20 21 22	A. The reason why for speaking in paragraphs Q. I didn't ask you why. A is because it's still clearly stated in my report Q. Doctor, I didn't ask you why you're speaking in paragraphs. A. But it says so in my report. And I gave you the examples. And we just
14 15 16 17 18 19 20 21 22 23	a decreased risk of ovarian cancer and some data that do not for both aspirin and NSAIDs? A. I do believe that if there was powerful enough data to support the use of antiinflammatories to prevent the deadliest GYN malignancy, this would be a common recommendation for patients to use. We don't tell BRCA mutation patients to take NSAIDs. We don't tell	14 15 16 17 18 19 20 21 22 23	A. The reason why for speaking in paragraphs Q. I didn't ask you why. A is because it's still clearly stated in my report Q. Doctor, I didn't ask you why you're speaking in paragraphs. A. But it says so in my report. And I gave you the examples. And we just went through them one by one. I gave you
14 15 16 17 18 19 20 21	a decreased risk of ovarian cancer and some data that do not for both aspirin and NSAIDs? A. I do believe that if there was powerful enough data to support the use of antiinflammatories to prevent the deadliest GYN malignancy, this would be a common recommendation for patients to use. We don't tell BRCA mutation	14 15 16 17 18 19 20 21 22	A. The reason why for speaking in paragraphs Q. I didn't ask you why. A is because it's still clearly stated in my report Q. Doctor, I didn't ask you why you're speaking in paragraphs. A. But it says so in my report. And I gave you the examples. And we just

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	Page 458		Page 460
1	examples it didn't. And then you follow	1	cancer.
2	up a question	2	Do you recall that data?
3	Q. If you're not if you're	3	MS. CURRY: Object to the
4	not going to answer my question	4	form.
5	A. Because	5	THE WITNESS: Yes.
6	Q I think we're going to	6	BY MS. GARBER:
7	have to call the Court because we're	7	Q. Why did you cite those data?
8	nearly done, and you're talking in	8	A. Couple reasons.
9	paragraphs and you're not responding to	9	Penninkilampi, in trying to explain the
10	my question.	10	way exactly what were you trying to
11	A. But you're asking	11	explain, he's saying that I know it's
12	MS. SHARKO: The order	12	inconsistent, the data on nonsteroidals.
13	doesn't allow you to criticize his	13	He's saying, I know it doesn't look in
14	answer. So please stop.	14	support of my argument for my biologic
15	THE WITNESS: You're asking	15	plausibility.
16	questions that	16	But maybe maybe NSAIDs
17	MS. O'DELL: That's not	17	don't work because they don't they
18	true, Susan. Completely not true.	18	only they prevent they work on COX.
19	THE WITNESS: have clear	19	And COX expression is low in these cells
20	evidence. You're saying have I	20	anyway. And that's why you don't see a
21	I cited in my report data that	21	more impressive so he's explaining why
22	went both ways. And then you turn	22	this data that you're saying is is as
23	around and ask me, do you believe	23	unimpressive as it is.
24	that data goes both ways? And I	24	And so I read in
	- 450		
	Page 459		Page 461
1	cited.	1	
1 2		1 2	Dr. Saenz her deposition, she mentioned some basic science research by
	cited. BY MS. GARBER:		Dr. Saenz her deposition, she
2	cited.	2	Dr. Saenz her deposition, she mentioned some basic science research by
2	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are	2 3	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have
2 3 4	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the	2 3 4	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago.
2 3 4 5	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are	2 3 4 5	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell
2 3 4 5 6	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and	2 3 4 5 6	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my
2 3 4 5 6 7	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some	2 3 4 5 6 7	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what
2 3 4 5 6 7 8	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data	2 3 4 5 6 7 8	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I
2 3 4 5 6 7 8	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not?	2 3 4 5 6 7 8	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the
2 3 4 5 6 7 8 9	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the	2 3 4 5 6 7 8 9	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that
2 3 4 5 6 7 8 9 10	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form.	2 3 4 5 6 7 8 9 10	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the
2 3 4 5 6 7 8 9 10 11	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER:	2 3 4 5 6 7 8 9 10 11 12	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade
2 3 4 5 6 7 8 9 10 11 12 13	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree?	2 3 4 5 6 7 8 9 10 11 12 13	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade serous carcinomas, actually expressed
2 3 4 5 6 7 8 9 10 11 12 13 14	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree? A. I do agree. And that's the	2 3 4 5 6 7 8 9 10 11 12 13 14	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade serous carcinomas, actually expressed COX-1. And Type 1 expressed COX-2.
2 3 4 5 6 7 8 9 10 11 12 13 14	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree? A. I do agree. And that's the reason the fact that it's gone both	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade serous carcinomas, actually expressed COX-1. And Type 1 expressed COX-2. So this idea that inhibitors
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree? A. I do agree. And that's the reason the fact that it's gone both ways is the reason why we do not	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade serous carcinomas, actually expressed COX-1. And Type 1 expressed COX-2. So this idea that inhibitors of COX, that NSAIDs, that they don't
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree? A. I do agree. And that's the reason the fact that it's gone both ways is the reason why we do not recommend nonsteroidal use or aspirin use	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade serous carcinomas, actually expressed COX-1. And Type 1 expressed COX-2. So this idea that inhibitors of COX, that NSAIDs, that they don't work, or aspirin doesn't work because
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree? A. I do agree. And that's the reason the fact that it's gone both ways is the reason why we do not recommend nonsteroidal use or aspirin use to prevent it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade serous carcinomas, actually expressed COX-1. And Type 1 expressed COX-2. So this idea that inhibitors of COX, that NSAIDs, that they don't work, or aspirin doesn't work because there's low expression of this thing in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree? A. I do agree. And that's the reason the fact that it's gone both ways is the reason why we do not recommend nonsteroidal use or aspirin use to prevent it. Q. And Doctor, you don't	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade serous carcinomas, actually expressed COX-1. And Type 1 expressed COX-2. So this idea that inhibitors of COX, that NSAIDs, that they don't work, or aspirin doesn't work because there's low expression of this thing in the first place, that doesn't make sense.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree? A. I do agree. And that's the reason the fact that it's gone both ways is the reason why we do not recommend nonsteroidal use or aspirin use to prevent it. Q. And Doctor, you don't know strike that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade serous carcinomas, actually expressed COX-1. And Type 1 expressed COX-2. So this idea that inhibitors of COX, that NSAIDs, that they don't work, or aspirin doesn't work because there's low expression of this thing in the first place, that doesn't make sense. If if you'd have to explain
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree? A. I do agree. And that's the reason the fact that it's gone both ways is the reason why we do not recommend nonsteroidal use or aspirin use to prevent it. Q. And Doctor, you don't know strike that. You cited on your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade serous carcinomas, actually expressed COX-1. And Type 1 expressed COX-2. So this idea that inhibitors of COX, that NSAIDs, that they don't work, or aspirin doesn't work because there's low expression of this thing in the first place, that doesn't make sense. If if you'd have to explain something else.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	cited. BY MS. GARBER: Q. I never said in your report. Do you agree that there are peer-reviewed published studies on the topic of anti-inflammatories, aspirin and NSAIDs NSAIDs, that go both ways, some data show a decreased risk and other data do not? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree? A. I do agree. And that's the reason the fact that it's gone both ways is the reason why we do not recommend nonsteroidal use or aspirin use to prevent it. Q. And Doctor, you don't know strike that. You cited on your supplemental report some data that were	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Dr. Saenz her deposition, she mentioned some basic science research by Dr. Dineo Khabele, who I happened to have been a resident with back at Cornell years ago. And so that piqued my interest. And I was curious to see what is she doing in her lab, and so I actually went back and I looked at the studies that she was showing to see that Penninkilampi actually had misstated the fact that Type 2 tumors, high grade serous carcinomas, actually expressed COX-1. And Type 1 expressed COX-2. So this idea that inhibitors of COX, that NSAIDs, that they don't work, or aspirin doesn't work because there's low expression of this thing in the first place, that doesn't make sense. If if you'd have to explain something else. Maybe it doesn't make a

	Page 462		Page 464
1	Q. You didn't read the Wilson	1	That's the only thing I was
2	2015 paper with regard to COX COX	2	doing. That is not inappropriate.
3	expression in epithelial ovarian tissue,	3	MS. O'DELL: It is
4	did you?	4	inappropriate
5	MS. CURRY: Object to the	5	MS. CURRY: I disagree.
6	form.	6	MS. O'DELL: and the
7	THE WITNESS: Whose whose	7	three instances that I've referred
8	paper? I'm sorry.	8	to are not occasions when the Elmo
9	BY MS. GARBER:	9	
		l	was in use, so
10	Q. Wilson, et al.?	10	MS. CURRY: Well, I think
11	A. If you can show it to me I'd	11	you are mischaracterizing what has
12	let you know. I don't think so.	12	happened today.
13	MS. O'DELL: Counsel, please	13	MS. O'DELL: That is not
14	don't show something to the	14	true.
15	witness.	15	BY MS. GARBER:
16	MS. CURRY: I'm just	16	Q. Doctor, is the basis for
17	you're referring to you just	17	your opinion that talc does not induce
18	said Wilson 2000	18	inflammation which leads to ovarian
19	MS. O'DELL: Let me finish.	19	cancer based on pleurodesis data?
20	That's the third time	20	MS. CURRY: Object to the
21	MS. CURRY: Hang on a minute	21	form.
22	and let me explain. It's not the	22	THE WITNESS: No.
23	third time.	23	BY MS. GARBER:
24	MS. O'DELL: It's the third	24	Q. Pleurodesis does talc
			·
	Page 463		Page 465
1	Page 463 time I've seen you do it and I	1	Page 465 pleurodesis has been shown to increase
1 2	time I've seen you do it and I	1 2	pleurodesis has been shown to increase
	time I've seen you do it and I haven't said anything. But that's		
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	time I've seen you do it and I haven't said anything. But that's not appropriate MS. GARBER: I've seen you do it as well. MS. CURRY: Excuse me. Excuse me. I've pointed out where you were trying to show something on the Elmo, and he's trying to find it, where it is on the document to help speed things along. MS. O'DELL: Those MS. CURRY: What I just referred to him excuse me. Let me finish speaking, please. What I just pointed out was, when you say Wilson 2015, it's you're not giving any further information about the article. So I'm pointing out that it's the one on his supplemental	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	pleurodesis has been shown to increase inflammation in pleural tissue, correct? A. But not cancer. Yes, it increases Q. That wasn't my question. A. It increases inflammation. Does not cause cancer. So the reason why I don't think inflammation Q. Doctor, I didn't ask you the reason. Did I? A. Oh, I'm sorry. I thought I was here to clarify my positions. I'll wait for the questions. Q. Thank you. I really appreciate that. You've got to let me get there. A. You don't get there. Q. I will if you don't stop talking in paragraphs. Doctor, did you read the Ghio 2007 study with regard to

117 (Pages 462 to 465)

	Page 466		Page 468
1	I can let you know?	1	Pleural Effusions."
2	Q. I will.	2	(Document marked for
3	While she's pulling that,	3	identification as Exhibit
4	I'll ask you this. You indicate that	4	Holcomb-26.)
5	talc pleurodesis does not induce cancer,	5	BY MS. GARBER:
6	is that fair, what you said?	6	Q. Nonmalignant pleural
7	A. Yes.	7	effusions are what for the lay listener?
8	O. And the number one	8	MS. CURRY: Object to the
9	indication for talc pleurodesis is	9	form.
10	malignant pleural effusions, right?	10	MS. SHARKO: What exhibit is
11	A. Yes.	11	this now?
12	Q. And so those patients	12	MS. BROWN: 26.
13	already have cancer and are likely end	13	MS. SHARKO: Pardon me?
14	stage, right?	14	MS. BROWN: 26.
15	A. It had been used for years	15	BY MS. GARBER:
16	on patients without malignancy. The	16	Q. What's a nonmalignant
17	reason why it's used on patients	17	pleural effusion?
18	Q. Did you say yes?	18	A. A nonmalignant pleural
19	A. Say this again?	19	effusion is one where you have fluid
20		20	surrounding the lung but it's not from a
21	Q. Did you say yes to my to my question?	21	cancer.
22	MS. CURRY: Objection.	22	
23	· · · · · · · · · · · · · · · · · · ·	23	Q. All right. And and this
24	Please don't interrupt him BY MS. GARBER:	24	paper is authored by Andrew Ghio and
24	DI MS. GARBER:	24	Victor Roggli.
	Page 467		Page 469
_			
1	Q. Did you say yes to my	1	Do you see that?
2	Q. Did you say yes to my question? I didn't ask you for the	1 2	
			Do you see that? MS. CURRY: Object to the form.
2	question? I didn't ask you for the	2	MS. CURRY: Object to the
2	question? I didn't ask you for the reason. A. Your your question is?	2 3	MS. CURRY: Object to the form.
2 3 4	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes?	2 3 4	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER:
2 3 4 5	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question	2 3 4 5	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first
2 3 4 5 6	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it.	2 3 4 5 6	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says,
2 3 4 5 6 7	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question	2 3 4 5 6 7	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says, "However, there should continue to be
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it. Q. I said: "And those patients have cancer and are likely end stage, right?" And you said: "It has been used for years on patients without malignancy. The reason" And then I said: "Did you say yes?" You said? A. Yes. In those patients that have malignancy, they are likely end stage. As opposed to the patients who don't have malignancy for years that has been used.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says, "However, there should continue to be concern regarding use of talc for pleurodesis in individuals with nonmalignant pleural effusions and spontaneous pneumothorax. This dilemma results from a possible increased risk of malignant mesothelioma in those patients treated with talc. Consequently, an alternative agent should be employed in any individual without malignancy requiring pleurodesis." Did I read that correctly? A. You read that correctly again.

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	Page 470		Page 472
1	MS. GARBER: Sorry.	1	A. Yeah. I mean, I can't
2	THE VIDEOGRAPHER: Thanks.	2	I'm going to have to watch up here
3	BY MS. GARBER:	3	because it's too small.
4	Q. Doctor, do you think that	4	Q. Are you there
5	that peer-reviewed published data	5	•
6	indicate that there is a dose-response	6	A. Yeah, I'm going to have to sit it here because
7		7	
8	with regard to talc and risk of ovarian cancer?	8	Q in your version?
9	A. I believe that that's one of		MS. CURRY: Can I show him
		9	my version which is
10	the weaknesses is it's not consistently	10	THE WITNESS: I mean
11	shown.	11	literally, it's this. That's
12	Q. But you do agree that there	12	Table 3. You want me to read that
13	are peer-reviewed studies which show a	13	and give you an opinion?
14	dose-response, correct?	14	MS. GARBER: Let me see
15	MS. CURRY: Object to the	15	yours, Ms. Curry, if you could.
16	form.	16	Yes, please show that to
17	THE WITNESS: I've seen	17	him. Thank you.
18	studies that are peer reviewed and	18	BY MS. GARBER:
19	published that have only two	19	Q. Doctor, in the Berge study
20	levels of exposure, and one is	20	it indicates that with the duration of
21	higher than the other and they	21	talc use greater than ten years, defined
22	call that a dose-response.	22	as ten years, there is a statistically
23	So what I've seen in the	23	significant relative risk, correct?
24	literature, people define	24	A. I'm just trying to make sure
	Page 471		Page 473
	J		1490 173
1	dose-response in a lot of	1	I understand what they're looking at
1 2		1 2	
	dose-response in a lot of		I understand what they're looking at
2	dose-response in a lot of different ways. So I'd have to	2	I understand what they're looking at here.
2	dose-response in a lot of different ways. So I'd have to agree with you, yes.	2 3	I understand what they're looking at here. Q. That's what the table says,
2 3 4	dose-response in a lot of different ways. So I'd have to agree with you, yes. Penninkilampi does that.	2 3 4	I understand what they're looking at here. Q. That's what the table says, right?
2 3 4 5	dose-response in a lot of different ways. So I'd have to agree with you, yes. Penninkilampi does that. Two dose levels and says there's a	2 3 4 5	I understand what they're looking at here. Q. That's what the table says, right? A. Give me one second, ma'am. I'll be right with you.
2 3 4 5 6	dose-response in a lot of different ways. So I'd have to agree with you, yes. Penninkilampi does that. Two dose levels and says there's a dose-response.	2 3 4 5 6	I understand what they're looking at here. Q. That's what the table says, right? A. Give me one second, ma'am.
2 3 4 5 6 7	dose-response in a lot of different ways. So I'd have to agree with you, yes. Penninkilampi does that. Two dose levels and says there's a dose-response. (Document marked for	2 3 4 5 6 7	I understand what they're looking at here. Q. That's what the table says, right? A. Give me one second, ma'am. I'll be right with you. MS. GARBER: Let's go off
2 3 4 5 6 7 8	dose-response in a lot of different ways. So I'd have to agree with you, yes. Penninkilampi does that. Two dose levels and says there's a dose-response. (Document marked for identification as Exhibit	2 3 4 5 6 7 8	I understand what they're looking at here. Q. That's what the table says, right? A. Give me one second, ma'am. I'll be right with you. MS. GARBER: Let's go off the record then.
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	Page 474		Page 476
1	BY MS. GARBER:	1	THE WITNESS: Yes. But not
2	Q. Doctor, these data here that	2	together. They're saying duration
3	are presented in Table 3, they show	3	in one and frequency in the other.
4	duration and frequency of talc use,	4	So they're saying that but I
5	right?	5	think they've just split this in
6	A. Yes.	6	two.
7	Q. In the meta-analysis?	7	BY MS. GARBER:
8	A. Yes.	8	Q. And, Doctor, if you go back
9	Q. Correct?	9	to the abstract, first page of this
10	And for the duration defined	10	study.
11	as ten years, the relative risk is	11	A. Right.
12	statistically significant at 1.16, right?	12	Q. Okay. Second-to-last
13	A. The only thing I'm not I	13	sentence. It says, "This meta-analysis
14	have to say I'm not sure what's going on	14	resulted in a weak but statistically
15	here, and I didn't want to hold up more	15	significant association between genital
16	time. Are they saying if you compare	16	use of talc and ovarian cancer, which
17	studies in this 12-risk estimate and look	17	appears to be limited to serous carcinoma
18	at someone who had less than ten years	18	with a suggestion of a dose-response."
19	use and more than ten years use, and then	19	Do you see that?
20	say the relative risk between those two	20	A. Yeah.
21	is 1.16, and a confidence interval that	21	Q. Those were the authors'
22	comes close but doesn't cross one, then	22	words, right, suggestion of a
23	you're if it's a if it's just	23	dose-response?
24	splitting it in two, and say well ten is	24	A. Suggestion, yes.
	Page 475		Page 477
1	the split-off and I'm going to look at	1	Q. Okay. And then
2	less than ten and more than ten, that's	2	A. And I think they're using
3	not a dose-response. You can't make a	3	suggestion because they just did a
4	dose-response on just two observations.	4	dichotomous that's the word that I was
5	And I think that may be what	5	looking for, dichotomous a dichotomous
6	they're doing on the second one as well.	6	evaluation with just and you can't
7	But to be perfectly honest, I'm not sure.	7	prove a dose-response. Because if they
8	I'd have to look at the methods to figure	8	were doing a test for dose-response, they
9	out what they're doing here. But it	9	met statistical significance. And you
10	seems like a like a basically	10	know how much I like confidence
11	just what's the term I'm looking for?	11	intervals. They would say that they
12	Just two options, less than ten years,	12	found a dose-response. But they're
13	more than ten years.	13	saying it's a suggestion of a
14	Q. Doctor, let me ask you this.	14	dose-response because they didn't do that
15	Does Table 3	15	sort of analysis.
16	A. I guess I don't understand	16	Q. Doctor, Health Canada
17	exactly what they did here.	17	concluded there was a dose-response in
18	Q. Yeah. Okay. That's fair.	18	their Bradford Hill, right, under their
19	Does Table 3 present	19	biologic gradient assessment?
20	duration and frequency of talc use that	20	MS. CURRY: Object to the
21	present statistically significant	21	form.
22	results?	22	THE WITNESS: I'd have to
23	MS. CURRY: Object to the	23	look have to look back at that.
24	form.	24	BY MS. GARBER:
1			

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	Page 478		Page 480
1	Q. You don't remember?	1	said all that to her, she said, "I just
2	A. No, I don't.	2	need to know, Doctor, should I use it?
3	Q. All right.	3	Is it safe? Yes or no?" what would your
4	A. Can you tell me which page	4	response be?
5	you are talking about?	5	MS. CURRY: Object to the
6	Q. Can I ask you a few more	6	form.
7	questions?	7	THE WITNESS: I'd want to
8	Were you provided by	8	ask her why she uses it. I'm
9	Johnson & Johnson counsel any testing of	9	going to make another assumption.
10	talcum powder products by Dr. Longo with	10	The fact that she's asking me
11	regard to historical samples of talcum	11	again after that explanation is
12	powder products?	12	that she's concerned. And I would
13	A. No.	13	say, if you're concerned maybe you
14	Q. Were you provided by Johnson	14	should find an alternative product
15	& Johnson with any internal Johnson &	15	because you're concerned, not
16	Johnson company testing of their talcum	16	because I think it causes ovarian
17	powder products for asbestos or fibrous	17	cancer. But I don't see why you
18	talc?	18	would stress yourself out over
19	A. No.	19	this.
20	Q. Were you provided with any	20	BY MS. GARBER:
21	company witness testimony with regard to	21	Q. And, Doctor, if your patient
22	testing of talcum powder products?	22	said, "I just need to know, is using
23	A. I hadn't requested any of	23	Johnson & Johnson talcum powder products
24	these, and no, I wasn't provided.	24	that contain asbestos, is that safe for
	Page 479		Page 481
1	Q. So, Doctor, let me ask you	_	
	Q. Bo, Boctor, let me ask you	1	me to use? Yes or no?"
2	this. I want you to assume that talcum	1 2	me to use? Yes or no?" MS. CURRY: Object to the
2	this. I want you to assume that talcum	2	MS. CURRY: Object to the
2 3	this. I want you to assume that talcum powder products contain asbestos, and a	2 3	MS. CURRY: Object to the form.
2 3 4 5 6	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response?	2 3 4	MS. CURRY: Object to the form. THE WITNESS: And this is
2 3 4 5	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be	2 3 4 5	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's
2 3 4 5 6 7 8	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this	2 3 4 5 6 7 8	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right.
2 3 4 5 6 7 8	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation.	2 3 4 5 6 7 8 9	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make
2 3 4 5 6 7 8 9	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her,	2 3 4 5 6 7 8 9	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were
2 3 4 5 6 7 8 9 10	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that	2 3 4 5 6 7 8 9 10	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied
2 3 4 5 6 7 8 9 10 11 12	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my	2 3 4 5 6 7 8 9 10 11 12	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I
2 3 4 5 6 7 8 9 10 11 12 13	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my opinion, weaker designed studies showing	2 3 4 5 6 7 8 9 10 11 12 13	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I reviewed. And I would I'm not going
2 3 4 5 6 7 8 9 10 11 12 13	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my opinion, weaker designed studies showing a weak, as other people agree, increased	2 3 4 5 6 7 8 9 10 11 12 13 14	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I reviewed. And I would I'm not going to repeat it for the sake of time, but I
2 3 4 5 6 7 8 9 10 11 12 13 14 15	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my opinion, weaker designed studies showing a weak, as other people agree, increased risk of ovarian cancer. And other	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I reviewed. And I would I'm not going to repeat it for the sake of time, but I would have the same exact discussion with
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my opinion, weaker designed studies showing a weak, as other people agree, increased risk of ovarian cancer. And other weaker other weakly designed studies	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I reviewed. And I would I'm not going to repeat it for the sake of time, but I would have the same exact discussion with her.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my opinion, weaker designed studies showing a weak, as other people agree, increased risk of ovarian cancer. And other weaker other weakly designed studies that show no difference, and it seems to be about a 50/50 thing, and then cohort	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I reviewed. And I would I'm not going to repeat it for the sake of time, but I would have the same exact discussion with her. Q. You would say that it's safe to use?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my opinion, weaker designed studies showing a weak, as other people agree, increased risk of ovarian cancer. And other weaker other weakly designed studies that show no difference, and it seems to be about a 50/50 thing, and then cohort studies that show no increased risk.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I reviewed. And I would I'm not going to repeat it for the sake of time, but I would have the same exact discussion with her. Q. You would say that it's safe to use? A. I would say that, given your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my opinion, weaker designed studies showing a weak, as other people agree, increased risk of ovarian cancer. And other weaker other weakly designed studies that show no difference, and it seems to be about a 50/50 thing, and then cohort studies that show no increased risk. And I would tell the patient	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I reviewed. And I would I'm not going to repeat it for the sake of time, but I would have the same exact discussion with her. Q. You would say that it's safe to use? A. I would say that, given your assumption, there's asbestos in this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my opinion, weaker designed studies showing a weak, as other people agree, increased risk of ovarian cancer. And other weaker other weakly designed studies that show no difference, and it seems to be about a 50/50 thing, and then cohort studies that show no increased risk. And I would tell the patient overall there's not sufficient evidence	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I reviewed. And I would I'm not going to repeat it for the sake of time, but I would have the same exact discussion with her. Q. You would say that it's safe to use? A. I would say that, given your assumption, there's asbestos in this talcum powder. The totality of the data
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my opinion, weaker designed studies showing a weak, as other people agree, increased risk of ovarian cancer. And other weaker other weakly designed studies that show no difference, and it seems to be about a 50/50 thing, and then cohort studies that show no increased risk. And I would tell the patient overall there's not sufficient evidence to suggest that talcum powder causes	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I reviewed. And I would I'm not going to repeat it for the sake of time, but I would have the same exact discussion with her. Q. You would say that it's safe to use? A. I would say that, given your assumption, there's asbestos in this talcum powder. The totality of the data using the same product that you say has
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	this. I want you to assume that talcum powder products contain asbestos, and a patient of yours has asked you, is it safe to use talcum powder products on my genitals. What would be your response? A. Well, my first step would be to disclose that I'm involved in this litigation. And then I would tell her, pretty much what I would say without that assumption, that there are some, in my opinion, weaker designed studies showing a weak, as other people agree, increased risk of ovarian cancer. And other weaker other weakly designed studies that show no difference, and it seems to be about a 50/50 thing, and then cohort studies that show no increased risk. And I would tell the patient overall there's not sufficient evidence	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. CURRY: Object to the form. THE WITNESS: And this is with my assumption that there's asbestos in the product? BY MS. GARBER: Q. Right. A. And I'm going to make another assumption that there were asbestos in the products that was studied in this totality of the evidence that I reviewed. And I would I'm not going to repeat it for the sake of time, but I would have the same exact discussion with her. Q. You would say that it's safe to use? A. I would say that, given your assumption, there's asbestos in this talcum powder. The totality of the data

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	Page 482		Page 484
1	that's what I would say to her.	1	you, is it safe to apply this product to
2	Q. Would you say that it was	2	my genitals.
3	then safe to use?	3	A. Okay. I'm going to assume
4	A. Again, I'm telling you that	4	then that the product that you're
5	there is no convincing evidence that this	5	describing is the same product that was
6	powder causes ovarian cancer. And that's	6	used in the totality of the data that I
7	where I would leave it.	7	reviewed. And I would tell her the exact
8	Q. Okay. Let me turn to	8	same story, that there's some weaker
9	another hypothetical.	9	studies suggesting a modest or weak
10	I want you to assume that	10	inconsistent positive association, and
11	Johnson & Johnson's talcum powder	11	stronger studies showing no association.
12	products are found to contain fibrous	12	And in its totality, I would say there's
13	talc and your patient asks you the same	13	no compelling evidence that that product
14	question, is it safe for me to use	14	that you're describing increases her risk
15	Johnson & Johnson's talcum powder	15	for ovarian cancer.
16	products that contain fibrous tale on my	16	Q. Do you go to those data
17	genitals, what would your response be?	17	because you assume there's asbestos in
18	MS. CURRY: Object to the	18	Johnson & Johnson's products always?
19	form.	19	MS. CURRY: Object to the
20	THE WITNESS: In this	20	form.
21	hypothetical situation, can I	21	THE WITNESS: Do I go to
22	assume that that same Johnson &	22	what data?
23	Johnson that has fibrous tale was	23	BY MS. GARBER:
24	the same stuff used in all the	24	Q. Do you go to the talc data
	the same start asea in an the		Q. Do you go to the tale data
	Page 483		Page 485
1	body of literature that I've or	1	because you make an assumption that
2	is that what you'd like me to	2	Johnson & Johnson's products contain
3	assume as well?	3	asbestos?
4	BY MS. GARBER:	4	MS. CURRY: Object to the
5	Q. What I want you to assume is	5	form.
6	that one of your patients is asking you	6	THE WITNESS: I'm not sure
7	is it safe or not.	7	what would make you say that.
8	A. But this is your world. And	8	How else can I advise a
9	this is your hypothetical situation, so I	9	patient on the risk of a substance
10	want to make sure I'm doing it right.	10	without going to the epidemiologic
11	The patient is asking me,	11	data on that substance? She's
12	talcum powder products by Johnson &	12	asking me about talc. What other
1 2		13	data am I going to review to give
13	Johnson has fibrous talc as you said.		
14	And I'm just asking you, can I assume	14	her an answer?
	· · · · · · · · · · · · · · · · · · ·		
14	And I'm just asking you, can I assume	14	her an answer?
14 15	And I'm just asking you, can I assume that the body of literature in its	14 15	her an answer? BY MS. GARBER:
14 15 16	And I'm just asking you, can I assume that the body of literature in its totality that I've reviewed is the same	14 15 16	her an answer? BY MS. GARBER: Q. Doctor, you didn't look at
14 15 16 17	And I'm just asking you, can I assume that the body of literature in its totality that I've reviewed is the same product that you're describing, there is	14 15 16 17	her an answer? BY MS. GARBER: Q. Doctor, you didn't look at the NTP data, did you? A. No.
14 15 16 17 18	And I'm just asking you, can I assume that the body of literature in its totality that I've reviewed is the same product that you're describing, there is no reason for me to have a different	14 15 16 17 18	her an answer? BY MS. GARBER: Q. Doctor, you didn't look at the NTP data, did you? A. No. MS. GARBER: Okay. Let's
14 15 16 17 18 19	And I'm just asking you, can I assume that the body of literature in its totality that I've reviewed is the same product that you're describing, there is no reason for me to have a different conversation?	14 15 16 17 18 19	her an answer? BY MS. GARBER: Q. Doctor, you didn't look at the NTP data, did you? A. No. MS. GARBER: Okay. Let's just take a break and let me look
14 15 16 17 18 19 20	And I'm just asking you, can I assume that the body of literature in its totality that I've reviewed is the same product that you're describing, there is no reason for me to have a different conversation? Q. My hypothetical did not include the body of literature.	14 15 16 17 18 19 20	her an answer? BY MS. GARBER: Q. Doctor, you didn't look at the NTP data, did you? A. No. MS. GARBER: Okay. Let's just take a break and let me look at my notes. But I think I'm
14 15 16 17 18 19 20 21	And I'm just asking you, can I assume that the body of literature in its totality that I've reviewed is the same product that you're describing, there is no reason for me to have a different conversation? Q. My hypothetical did not	14 15 16 17 18 19 20 21	her an answer? BY MS. GARBER: Q. Doctor, you didn't look at the NTP data, did you? A. No. MS. GARBER: Okay. Let's just take a break and let me look

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	Page 486		Page 488
1	THE VIDEOGRAPHER: Okay.	1	some reason separated that one out
2	The time is 6:13 p.m. Off the	2	with a potentially.
3	record.	3	BY MS. GARBER:
4	(Short break.)	4	Q. All right. And the footnote
5	THE VIDEOGRAPHER: We are	5	that the authors are citing to is the
6	back on the record. The time is	6	Penninkilampi data, correct?
7	6:36 p.m.	7	A. Yes.
8	BY MS. GARBER:	8	Q. And, Doctor, I'm going to
9	Q. Doctor, I'm going to mark an	9	mark another document as Exhibit 29.
10	additional paper that appears in the	10	(Document marked for
11	Lancet dated March 23, 2019.	11	identification as Exhibit
12	(Document marked for	12	Holcomb-29.)
13	identification as Exhibit	13	BY MS. GARBER:
14	Holcomb-28.)	14	Q. And this is a study that
15	BY MS. GARBER:	15	appeared in ACOG Obstetrics and
16	Q. And, Doctor, you have not	16	Gynecology, and it's titled "What's New
17	seen this paper before, have you?	17	in Ovarian Cancer."
18	A. No.	18	Do you see that?
19	Q. All right. If I could turn	19	A. Yes, I do.
20	your attention to the left-hand column	20	Q. And it says, "Best articles
21	that appears at the bottom if you look up	21	from the past year," correct?
22	here?	22	A. Yes.
23	A. Yes.	23	Q. It's written by Jason D.
24		24	Wright, M.D., correct?
21	Q. Okay. And, Doctor, it		Wilgit, W.D., collect.
	Daga 497		
	Page 487		Page 489
1	reads the title is "Epithelial Ovarian	1	Page 489 A. Correct.
1 2		1 2	
	reads the title is "Epithelial Ovarian		A. Correct.
2	reads the title is "Epithelial Ovarian Cancer" by Stephanie oh boy. Okay. I	2	A. Correct. Q. You respect him?
2 3	reads the title is "Epithelial Ovarian Cancer" by Stephanie oh boy. Okay. I have to start with French. A. Lheureux, I believe. Q. Lheureux. All right.	2 3 4 5	A. Correct. Q. You respect him? A. Yes. Q. And the Penninkilampi article is listed as four of the best
2 3 4	reads the title is "Epithelial Ovarian Cancer" by Stephanie oh boy. Okay. I have to start with French. A. Lheureux, I believe. Q. Lheureux. All right. And it indicates: "Risk	2 3 4 5 6	A. Correct.Q. You respect him?A. Yes.Q. And the Penninkilampi
2 3 4 5 6 7	reads the title is "Epithelial Ovarian Cancer" by Stephanie oh boy. Okay. I have to start with French. A. Lheureux, I believe. Q. Lheureux. All right. And it indicates: "Risk factors for epithelial ovarian cancer	2 3 4 5 6 7	A. Correct. Q. You respect him? A. Yes. Q. And the Penninkilampi article is listed as four of the best articles from the past year, correct? A. Yes.
2 3 4 5 6 7 8	reads the title is "Epithelial Ovarian Cancer" by Stephanie oh boy. Okay. I have to start with French. A. Lheureux, I believe. Q. Lheureux. All right. And it indicates: "Risk factors for epithelial ovarian cancer include the number of lifetime ovulations	2 3 4 5 6	A. Correct. Q. You respect him? A. Yes. Q. And the Penninkilampi article is listed as four of the best articles from the past year, correct? A. Yes. Q. Doctor, we
2 3 4 5 6 7 8	reads the title is "Epithelial Ovarian Cancer" by Stephanie oh boy. Okay. I have to start with French. A. Lheureux, I believe. Q. Lheureux. All right. And it indicates: "Risk factors for epithelial ovarian cancer include the number of lifetime ovulations (absence of pregnancy, early age of	2 3 4 5 6 7 8 9	A. Correct. Q. You respect him? A. Yes. Q. And the Penninkilampi article is listed as four of the best articles from the past year, correct? A. Yes. Q. Doctor, we MS. CURRY: Object to the
2 3 4 5 6 7 8 9	reads the title is "Epithelial Ovarian Cancer" by Stephanie oh boy. Okay. I have to start with French. A. Lheureux, I believe. Q. Lheureux. All right. And it indicates: "Risk factors for epithelial ovarian cancer include the number of lifetime ovulations (absence of pregnancy, early age of menarche, and late age of menarche)	2 3 4 5 6 7 8 9	A. Correct. Q. You respect him? A. Yes. Q. And the Penninkilampi article is listed as four of the best articles from the past year, correct? A. Yes. Q. Doctor, we MS. CURRY: Object to the form of the last question.
2 3 4 5 6 7 8 9 10	reads the title is "Epithelial Ovarian Cancer" by Stephanie oh boy. Okay. I have to start with French. A. Lheureux, I believe. Q. Lheureux. All right. And it indicates: "Risk factors for epithelial ovarian cancer include the number of lifetime ovulations (absence of pregnancy, early age of menarche, and late age of menarche) family history of EOC, smoking, benign	2 3 4 5 6 7 8 9 10	A. Correct. Q. You respect him? A. Yes. Q. And the Penninkilampi article is listed as four of the best articles from the past year, correct? A. Yes. Q. Doctor, we MS. CURRY: Object to the form of the last question. THE WITNESS: I don't you
2 3 4 5 6 7 8 9 10 11 12	reads the title is "Epithelial Ovarian Cancer" by Stephanie oh boy. Okay. I have to start with French. A. Lheureux, I believe. Q. Lheureux. All right. And it indicates: "Risk factors for epithelial ovarian cancer include the number of lifetime ovulations (absence of pregnancy, early age of menarche, and late age of menarche) family history of EOC, smoking, benign gynecologic conditions (including	2 3 4 5 6 7 8 9 10 11 12	A. Correct. Q. You respect him? A. Yes. Q. And the Penninkilampi article is listed as four of the best articles from the past year, correct? A. Yes. Q. Doctor, we MS. CURRY: Object to the form of the last question. THE WITNESS: I don't you know, I'm sorry.
2 3 4 5 6 7 8 9 10 11 12	reads the title is "Epithelial Ovarian Cancer" by Stephanie oh boy. Okay. I have to start with French. A. Lheureux, I believe. Q. Lheureux. All right. And it indicates: "Risk factors for epithelial ovarian cancer include the number of lifetime ovulations (absence of pregnancy, early age of menarche, and late age of menarche) family history of EOC, smoking, benign gynecologic conditions (including endometriosis, polycystic ovarian system,	2 3 4 5 6 7 8 9 10 11 12 13	A. Correct. Q. You respect him? A. Yes. Q. And the Penninkilampi article is listed as four of the best articles from the past year, correct? A. Yes. Q. Doctor, we MS. CURRY: Object to the form of the last question. THE WITNESS: I don't you know, I'm sorry. BY MS. GARBER:
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Kevin Holcomb, M.D.

	Page 490		Page 492
1	obstetrics Obstetrics and Gynecology	1	exhaustive review haven't seen
2	is the name of the journal this is in.	2	before.
3	And just to clarify, without	3	And so in that setting, if
4	speaking to Dr. Wright, I'm not sure why	4	there was some convincing data
5	he's calling these specifically the best,	5	that bumped them from 2-B to 1,
6	whether he's speaking towards the quality	6	yes, I would feel differently
7	of the studies or just what's the most	7	about it.
8	popular or sensational.	8	BY MS. GARBER:
9	Q. Doctor, what's the journal	9	Q. I will state in my
10	name?	10	hypothetical that the IARC authors or
11	A. Obstetrics and Gynecology.	11	working group look at the data that
12	Q. Does that do people refer	12	exists today with regard to the
13	to that as by a particular color?	13	epidemiological data, the meta-analyses
14	A. Green.	14	that exist, the nine meta-analyses,
15	Q. And that's a that's a	15	including Taher, and the other
16	journal that you regularly read?	16	epidemiological data, the Saed data and
17	A. Yes.	17	the other biologically plausible data,
18	Q. And you do some review work	18	and the mechanistic data that was
19	for them, don't you?	19	previously contained in IARC 2010, and
20	A. Yes.	20	they concluded that it that talcum
21	Q. That is a published document	21	powder products were a Group 1
22	that appears within the Green Journal,	22	carcinogen, would your opinions in this
23	right?	23	matter change?
24	A. Yes. You're telling me this	24	MS. CURRY: Object to the
	Page 491		Daga 402
			Page 493
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2	is from the Green Journal, so it's Q. Doctor, were you aware that	2	form. THE WITNESS: I have to be
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	Page 494		Page 496
1	how IARC is going to get from a	1	Q. Sure. Are you aware that
2	2-B to a 1, based on what's been	2	the FDA are you aware of FDA's
3	published from the last time that	3	statements with regard to certain
4	they issued an opinion on this.	4	cosmetic makeup products that are sold at
5	BY MS. GARBER:	5	Justice and Claire's with regard to talc
6	Q. I want you to assume that	6	and asbestos?
7	they get to a 1. Is your opinion going	7	MS. CURRY: Object to the
8	to change out of your respect for the	8	form.
9	institution of IARC, a branch of the	9	THE WITNESS: No, I'm not
10	World Health Organization?	10	aware.
11	MS. CURRY: Object to the	11	BY MS. GARBER:
12	form.	12	Q. Did you, before you came
13	THE WITNESS: If IARC used	13	here today and in preparation for your
14	Penninkilampi, for example	14	deposition, endeavor to look at what FDA
15	let's say that I was I'm going	15	is saying about talcum powder products?
16	to give you a hypothetical.	16	MS. CURRY: Object to the
17	BY MS. GARBER:	17	form.
18	Q. Doctor, you don't give me a	18	THE WITNESS: No.
19	hypothetical.	19	(Document marked for
20	A. If	20	identification as Exhibit
21	Q. I give you one. You	21	Holcomb-30.)
22	understand that, right?	22	BY MS. GARBER:
23	A. I'm giving you the	23	Q. Let's mark this as
24	hypothetical of how I'm considering your	24	Exhibit 30.
21	hypothetical of now 1 in considering your	21	Exhibit 50.
	Page 495		Page 497
1	situation.	1	Doctor, this is at the
2	Q. I want you to answer my		
		2	bottom, you see this is the FDA's
3	hypothetical.	3	bottom, you see this is the FDA's website, right, FDA.gov/cosmetics?
4	hypothetical. A. It depends on what brought	3 4	
4 5	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for	3 4 5	website, right, FDA.gov/cosmetics?
4	hypothetical. A. It depends on what brought	3 4	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes.
4 5	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for	3 4 5	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that?
4 5 6 7 8	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC	3 4 5 6	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes.
4 5 6 7 8 9	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's	3 4 5 6 7 8	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain
4 5 6 7 8 9	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that	3 4 5 6 7 8 9	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products."
4 5 6 7 8 9 10	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that they had Dr. Saed's paper as highly	3 4 5 6 7 8 9 10	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products." Do you see that?
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4 5 6 7 8 9 10	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that they had Dr. Saed's paper as highly	3 4 5 6 7 8 9 10	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products." Do you see that? A. Yes. Q. And do you see there in the
4 5 6 7 8 9 10 11 12 13 14	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that they had Dr. Saed's paper as highly credible, and this is moving us from here to here, I'm no longer so impressed with IARC.	3 4 5 6 7 8 9 10 11 12 13 14	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products." Do you see that? A. Yes.
4 5 6 7 8 9 10 11 12 13 14 15	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that they had Dr. Saed's paper as highly credible, and this is moving us from here to here, I'm no longer so impressed with IARC. So, no, my respect level for	3 4 5 6 7 8 9 10 11 12 13 14	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products." Do you see that? A. Yes. Q. And do you see there in the middle of the document, it indicates, "Product samples test positive for
4 5 6 7 8 9 10 11 12 13 14	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that they had Dr. Saed's paper as highly credible, and this is moving us from here to here, I'm no longer so impressed with IARC. So, no, my respect level for IARC would drop considerably, and I	3 4 5 6 7 8 9 10 11 12 13 14 15 16	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products." Do you see that? A. Yes. Q. And do you see there in the middle of the document, it indicates, "Product samples test positive for asbestos," and then it lists a number of
4 5 6 7 8 9 10 11 12 13 14 15 16 17	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that they had Dr. Saed's paper as highly credible, and this is moving us from here to here, I'm no longer so impressed with IARC. So, no, my respect level for	3 4 5 6 7 8 9 10 11 12 13 14	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products." Do you see that? A. Yes. Q. And do you see there in the middle of the document, it indicates, "Product samples test positive for
4 5 6 7 8 9 10 11 12 13 14 15 16	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that they had Dr. Saed's paper as highly credible, and this is moving us from here to here, I'm no longer so impressed with IARC. So, no, my respect level for IARC would drop considerably, and I	3 4 5 6 7 8 9 10 11 12 13 14 15 16	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products." Do you see that? A. Yes. Q. And do you see there in the middle of the document, it indicates, "Product samples test positive for asbestos," and then it lists a number of Claire's products? A. Yes.
4 5 6 7 8 9 10 11 12 13 14 15 16 17	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that they had Dr. Saed's paper as highly credible, and this is moving us from here to here, I'm no longer so impressed with IARC. So, no, my respect level for IARC would drop considerably, and I probably wouldn't follow the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products." Do you see that? A. Yes. Q. And do you see there in the middle of the document, it indicates, "Product samples test positive for asbestos," and then it lists a number of Claire's products?
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that they had Dr. Saed's paper as highly credible, and this is moving us from here to here, I'm no longer so impressed with IARC. So, no, my respect level for IARC would drop considerably, and I probably wouldn't follow the recommendations. Q. Doctor, you're aware, aren't you, of FDA's recent statements with regard to the businesses Justice and	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products." Do you see that? A. Yes. Q. And do you see there in the middle of the document, it indicates, "Product samples test positive for asbestos," and then it lists a number of Claire's products? A. Yes. Q. Doctor, if there was such a finding by FDA with regard to J&J's talcum powder products, would your
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	hypothetical. A. It depends on what brought them from 2-B to 1. I have respect for IARC because I looked at their methodology. We've gone through the things that I didn't agree with IARC methodology. But if you told me IARC's quality dropped to such a standard that they had Dr. Saed's paper as highly credible, and this is moving us from here to here, I'm no longer so impressed with IARC. So, no, my respect level for IARC would drop considerably, and I probably wouldn't follow the recommendations. Q. Doctor, you're aware, aren't you, of FDA's recent statements with regard to the businesses Justice and Claire and their cosmetic products?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	website, right, FDA.gov/cosmetics? A. Yes. Q. Do you see that? A. Yes. Q. And do you see at the top it indicates recalls and alerts? "FDA advises consumers to stop using certain Claire's cosmetic products." Do you see that? A. Yes. Q. And do you see there in the middle of the document, it indicates, "Product samples test positive for asbestos," and then it lists a number of Claire's products? A. Yes. Q. Doctor, if there was such a finding by FDA with regard to J&J's talcum powder products, would your opinions change in this case?

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2 say the testing of the products 3 that went into this body of 4 knowledge that I have, I'm not 5 sure. I would have to think about 6 it. The reason why I'm hesitating 7 is because I don't know, is that a 8 new problem? Like, for example, 9 this one store, Claire's stores, I 10 think it's easier to call these 11 folks out because you don't know 12 if this is a new contamination. 13 The question would be if all 14 this data is with the same 15 contaminated product, I'd have to 16 assume that a woman is at no more 16 increased risk than than 17 than the stuff in this paper in 18 than the stuff in this paper in 19 these papers. 19 But I can't see myself going 20 against FDA regulations. I mean, 21 if FDA says stop using something, 22 if PAD says stop using something 23 I'm not going to tell people to 24 use something against FDA's Page 499 1 regulations. 2 BY MS. GARBER: 3 Q. And if FDA indicates that 4 the testing that they conducted of 5 Johnson & Johnson's talcum powder 6 form. Page 499 1 regulations. 2 BY MS. GARBER: 3 Q. And if FDA indicates that 4 the testing that they conducted of 5 Johnson & Johnson's talcum powder 6 form. Page 499 1 regulations. 2 BY MS. GARBER: 3 Q. Putting a warning on the bottle. 4 G. Ware I WINESS: Would I 4 patients to heed the warning. Page 499 1 regulations. 2 BY MS. GARBER: 3 Q. And if FDA indicates that 4 the testing that they conducted of 5 Johnson & Johnson's talcum powder 6 products test positive for asbestos, 7 would your causation opinions change? 8 MS. CURRY: Object to the 9 form. 10 THE WITNESS: No. No. 11 BY MS. GARBER: 12 Q. Would your advice to 13 patients chaege? 14 A. Apparently the FDA would 15 likely put out a warning to say stop 16 using it, and, yeah, I would stop using 17 it. I've done that in the past where 18 the texting that went in the past where 19 patients change? 10 a carcinogen and so dangerous 11 the warning to the potential anyone with common sense we It doesn't make sense to not to. 16 the market? 18 MS. CURRY: Object to the believ	e 500	Page 500		Page 498	
2 say the testing of the products 3 that went into this body of 4 knowledge that I have, I'm not 5 sure. I would have to think about 6 it. The reason why I'm hesitating 7 is because I don't know, is that a 8 new problem? Like, for example, 9 this one store, Claire's stores, I 10 think it's easier to call these 11 folks out because you don't know 12 if this is a new contamination. 13 The question would be if all 14 this data is with the same 15 contaminated product, I'd have to 16 assume that a woman is at no more 17 increased risk than than 18 than the stuff in this paper in 19 these papers. 20 But I can't see myself going 21 against FDA regulations. I mean, 22 if FDA says stop using 23 I'm not going to tell people to 24 use something against FDA's Page 499 Page 499 regulations. Page 499 regulations. 2 BY MS. GARBER: Q. Similarly, if FDA compel a warning to be placed on Johnson's products, would you heek warning if your patients were askin if it was safe to use? MS. CURRY: Object to the form. THE WITNESS: Putting a warning on it or pulling it off the market? BY MS. GARBER: Q. Putting a warning on the bottle. MS. CURRY: Object to the form. THE WITNESS: Would I patients to heed the warning. Page 499 regulations. Page 499 MS. CURRY: Object to the form. THE WITNESS: No. No. MS. CURRY: Object to the form. THE WITNESS: No. No. THE WITNESS: No. No. THE WITNESS: No. No. THE WITNESS: I have to believe that if the if the FDA indicates that they conducted of on the bottle, compelled by by FD your patient came and said I've been putting this on my genitals, should I stop, what would your answer be? MS. CURRY: Object to the form. THE WITNESS: I have to believe that if the if the FDA indicates that they conducted of on the bottle. THE WITNESS: I have to believe that if the if the FDA indicates that they conducted of on the bottle. THE WITNESS: I have to believe t	ning?	Q. You would heed the warning?	1	THE WITNESS: I'd have to	1
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10 4 14' 4 4'C4 EDA 1 1 10 C'414'1	ıts	putting a warning so that patients	l	*	
		are aware of it, I think my	18	\mathcal{E}	18
	io	conversation with her is going to	l	\mathcal{E} , \mathcal{E}	
even though I may think in my hands it's 20 be very similar to the				\mathcal{E}	
21 safe. 21 conversation I just told you I			1		
It has a lot to do with 22 would have now.			l		
23 medical/legal issues and things like 23 BY MS. GARBER:				2	
24 that. But 24 Q. But you wouldn't tell her		Q. But you wouldn't tell her	24	that. But	24

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	Page 502		Page 504
1	to to stop using it?	1	to investigate and monitor reports of
2	A. My guess is the warning	2	asbestos contamination in certain
3	would be very similar to the	3	cosmetic products and will provide
4	conversations I'm having, there are some	4	additional information as it becomes
5	weaker data suggesting so in your	5	available. The agency is and will
6	you know, your hypothetical situation,	6	continue to work with other" "other
7	it's I would think that they would	7	federal partners to share our collective
8	possibly recall it or not recall it.	8	expertise to advance scientific test
9	They would they would put an advice to	9	methods for the assessment of asbestos."
10	stop using a certain product, like they	10	Did I read that correctly?
11	are doing in this situation. And a	11	A. So far you've been perfect.
12	patient came to me and says the FDA has	12	Q. Does it cause you concern
13	this warning to stop using this product,	13	that the FDA is interested in looking
14	I would support the FDA.	14	further into whether talcum powder
15	Q. And, Doctor, I know you are	15	products contain asbestos?
16	not a regulatory expert, but you do know	16	MS. CURRY: Object to the
17	that at times FDA does not have the power	17	form.
18	to compel a warning, you understand that,	18	THE WITNESS: No. It
19	right?	19	actually gives me reassurance that
20	A. I I, really as you	20	the federal agencies that are
21	started with your statement, I am not a	21	supposed to be protecting public
22	regulatory expert. I know very little	22	safety are at work and doing what
23	about regulations and how the FDA works	23	they are supposed to be doing.
24	in that regard.	24	BY MS. GARBER:
	Page 503		Page 505
1	(Document marked for	1	Q. But you are here in this
2	identification as Exhibit	2	Q. But you are here in this litigation saying talc is safe, even
2	identification as Exhibit Holcomb-31.)		Q. But you are here in this litigation saying talc is safe, even though FDA is looking into whether or not
2 3 4	identification as Exhibit Holcomb-31.) BY MS. GARBER:	2 3 4	Q. But you are here in this litigation saying talc is safe, even though FDA is looking into whether or not talcum powder products contain asbestos.
2 3 4 5	identification as Exhibit Holcomb-31.) BY MS. GARBER: Q. I want to mark another	2 3 4 5	Q. But you are here in this litigation saying talc is safe, even though FDA is looking into whether or not talcum powder products contain asbestos. A. Right. So if
2 3 4 5 6	identification as Exhibit Holcomb-31.) BY MS. GARBER: Q. I want to mark another document. And this is Exhibit 31, which	2 3 4 5 6	Q. But you are here in this litigation saying talc is safe, even though FDA is looking into whether or not talcum powder products contain asbestos. A. Right. So if MS. CURRY: Object to the
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2 3 4 5 6 7 8	identification as Exhibit Holcomb-31.) BY MS. GARBER: Q. I want to mark another document. And this is Exhibit 31, which is from the FDA website. And it's titled "Talc."	2 3 4 5 6 7 8	Q. But you are here in this litigation saying talc is safe, even though FDA is looking into whether or not talcum powder products contain asbestos. A. Right. So if MS. CURRY: Object to the form. BY MS. GARBER:
2 3 4 5 6 7 8	identification as Exhibit Holcomb-31.) BY MS. GARBER: Q. I want to mark another document. And this is Exhibit 31, which is from the FDA website. And it's titled "Talc." Doctor, do you see do you	2 3 4 5 6 7 8	Q. But you are here in this litigation saying talc is safe, even though FDA is looking into whether or not talcum powder products contain asbestos. A. Right. So if MS. CURRY: Object to the form. BY MS. GARBER: Q. It doesn't concern you?
2 3 4 5 6 7 8 9	identification as Exhibit Holcomb-31.) BY MS. GARBER: Q. I want to mark another document. And this is Exhibit 31, which is from the FDA website. And it's titled "Talc." Doctor, do you see do you see that the date of the download of this	2 3 4 5 6 7 8 9	Q. But you are here in this litigation saying talc is safe, even though FDA is looking into whether or not talcum powder products contain asbestos. A. Right. So if MS. CURRY: Object to the form. BY MS. GARBER: Q. It doesn't concern you? A. It would concern me if they
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	identification as Exhibit Holcomb-31.) BY MS. GARBER: Q. I want to mark another document. And this is Exhibit 31, which is from the FDA website. And it's titled "Talc." Doctor, do you see do you see that the date of the download of this document is March 19, 2019? A. Yes. Q. And, Doctor, did you ever endeavor to go to the FDA website and put in "talc" to see what the FDA was saying about talcum powder products? A. No. Q. Okay. I will represent to you what appears new on this website is what's under the heading of "Talc." It says, "Here is a recent FDA action related to talc. Learn more	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. But you are here in this litigation saying talc is safe, even though FDA is looking into whether or not talcum powder products contain asbestos. A. Right. So if MS. CURRY: Object to the form. BY MS. GARBER: Q. It doesn't concern you? A. It would concern me if they told me that they found levels of talc and and you know, the the reason why it would concern me is because I don't know if that's a new contamination or that product is the same as it's always been. If it's the same as it's always been, then you are talking about a level of contamination that doesn't have compelling evidence that it causes cancer. But I don't know how I would

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Kevin Holcomb, M.D.

different than this. I think you'd have to either assume it's the same or it's different. And I think the safer thing to do would be to assume that it's different. If I knew for sure that this level of contamination they find has been in this stuff all this time and all these the hypothetical wording of what is SGO is saying? If I knew for sure that this level of contamination they find has been in this stuff all this time and all these the hypothetical wording of what is SGO is saying? If I knew for sure that this level of contamination they find has been in this stuff all this time and all these the hypothetical wording of what is SGO is saying? If I knew for sure that they been in this stuff all this time, and it's contaminated all this time, I would have to say no, that time, I would be able to tell the difference. If I knew for sure that they've been all this time, I would have to say no, that to wouldn't worry me. But there's no way that I would be able to tell the difference. If I knew for sure that this the safe to a wording of what is SGO is saying? A Right. And then -		Page 506		Page 508
to either assume it's the same or it's different. And I think the safer thing to do would be to assume that it's different. If I knew for sure that this Fi level of contamination they find has been in this stuff all this time and all these to thousands of patients that we've followed, you know, the large to thousands of patients that we've followed, you know, the large to this stuff all this time and all these to thousands of patients that we've followed, you know, the large to thousands of patients that we've followed, you know, the large to thousands of patients that we've followed, you know, the large to thousands of patients that we've followed, you know, the large to thousands of patients that we've followed, you know, the large to this stuff all this time and all these to the hypothetical wording of what is SGO is saying? BY MS. GARBER: Q. Shouldn't you, as a patient to difference. D. Shouldn't you, as a patient advocate, err on the side of safety? MS. CURRY: Object to the form. THE WITNESS: Befor I made adecision on that I'd have to go and see what is the data that they are basing that on. If they are basing it on the data that I've just reviewed, I would have the same discussion Page 507 BY MS. GARBER: Q. You know, Doctor, if - you are a member of the SGO, right? A. Yes. Q. And that stands for Society of Gynecologic Oncology, right? A. Yes. Q. That's a professional organization? A. Yes. Q. That's a professional organization? A. No, I'm not - I'm not sure. Q. I want you to assume that - whether they list talc as a risk factor that the SGO issues an advisory that tale can cause cancer. A. Right. And then - Q. Would you - would you can cause cancer. A. Right. WITNESS: Before I made a decision on that I'd have to go and see what is the data that they are basing that on. If they are basing it on the data that I've just reviewed, I would have the same discussion Page 507 Page 509 With my patients, because I I would say them saying that there's evidence to this effect is just telling the tr	1	different than this. I think you'd have	1	THE WITNESS: You're saying
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24 form. 24 form.	18 19 20 21 22	Q. I want you to assume that that the SGO issues an advisory that talc can cause cancer. Would you continue to recommend to patients that they use talcum powder products on their genitals?	18 19 20 21 22	Q. You wouldn't heed the advisory of the SGO, your professional organization, is that your testimony? A. And stop using talc myself? What what would
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	Page 510		Page 512
1	BY MS. GARBER:	1	Q. You're not going to heed the
2	Q. And advise patients that	2	advisory of the SGO?
3	it's safe to use?	3	MS. CURRY: Object to the
4	A. You didn't say that SGO is	4	form.
5	advising to stop using talc. You said	5	THE WITNESS: You the
6	what would I do if the SGO had an	6	advice
7	advisory just saying that patients should	7	BY MS. GARBER:
8	be aware that there's information out	8	Q. Because you know the data
9	there to this effect.	9	better?
10	Q. That wasn't my hypothetical,	10	A. The advice there is no
11	was it, Doctor?	11	advisory here. You keep on saying that
12	A. Yeah. Can you go back and	12	the SGO is saying that there's evidence
13	read it?	13	that talc can cause cancer. An advisory
14	Q. The SGO issues an advisory	14	is telling you to do something. In this
15	that talc can cause cancer. Would that	15	case, are they saying stop using talc or
16	change what you told patients about the	16	that patients should just be aware?
17	safety of talcum powder products?	17	Q. Let me give you another
18	MS. CURRY: Object to the	18	hypothetical. SGO issues an advisory to
19	form.	19	stop using talcum powder products on your
20	THE WITNESS: If the SGO	20	genitals because it contains asbestos.
21	jumped up to the same	21	Would you heed that advisory?
22	classification as IARC that says	22	· · · · · · · · · · · · · · · · · · ·
23	there's insufficient evidence but	23	MS. CURRY: Object to the
24			form.
24	this is potentially a carcinogen,	24	THE WITNESS: If the SGO is
	Page 511		Page 513
1	I don't see how SGO would be	1	telling patients to stop using
2	saying anything different than	2	talc because of asbestos that's
3	IARC.	3	been proven to be there, yes, to
4	So that that statement	4	be honest, I would probably drop
5	that says it can, you'd have to go	5	in line, just not to be out of
6	in and see, well, what's the	6	I'd be fearing medical/legal
7	evidence that you're basing it on.	7	exposure by not doing it, no
8	And I'm saying that why	8	matter how I felt about the data.
9	would I change my feeling about	9	BY MS. GARBER:
10	this if somebody else looks at	10	Q. More concerned about your
11	this data, and it's the same data	11	neck rather than the patients, Doctor?
12	that I've just reviewed, and says	12	MS. CURRY: Object to the
13	we're going to make this	13	form.
14	statement.	14	THE WITNESS: I have my
15	And the patient comes to me	15	opinion of this data. The data
16	and asks me, well, how do you feel	16	if you're saying my hypothetical
	about that statement? And if it's	17	that I just gave you is that the
17	based on this same data, I'm not	18	data didn't change and SGO makes a
17 18		1	E
18		19	statement. I'm worried about the
18 19	sure how it changes the fact that	19 20	statement. I'm worried about the
18 19 20	sure how it changes the fact that it's from SGO. I'm still going to	20	patients the same amount, because
18 19 20 21	sure how it changes the fact that it's from SGO. I'm still going to then explain, this is the truth as	20 21	patients the same amount, because the data is the data.
18 19 20 21 22	sure how it changes the fact that it's from SGO. I'm still going to then explain, this is the truth as I see it and the totality of the	20 21 22	patients the same amount, because the data is the data. You're saying, well, what if
18 19 20 21	sure how it changes the fact that it's from SGO. I'm still going to then explain, this is the truth as	20 21	patients the same amount, because the data is the data.

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		<u> </u>	
	Page 514		Page 516
1	an advisory?	1	finished.
2	The risk level hasn't	2	THE VIDEOGRAPHER: Okay.
3	changed. It's not based on any	3	Stand by, please. This marks the
4	new data. So I don't care about	4	end of today's deposition. The
5	my patients any less. The risk to	5	time is 6:59 p.m.
6	them hasn't increased.	6	(Excused.)
7	BY MS. GARBER:	7	(Deposition concluded at
8	Q. Doctor, is cornstarch a safe	8	approximately 6:59 p.m.)
9	alternative to talcum powder products?	9	
10	MS. CURRY: Object to the	10	
11	form.	11	
12	THE WITNESS: It's an	12	
13	alternative, yes.	13	
14	BY MS. GARBER:	14	
15	Q. Is it a safe alternative?	15	
16	MS. CURRY: Object to the	16	
17	form.	17	
18	THE WITNESS: I have no	18	
19	reason to think that cornstarch is	19	
20	not safe.	20	
21	BY MS. GARBER:	21	
22	Q. You haven't done a	22	
23 24	comprehensive literature review of the	23	
24	cornstarch data, have you?	24	
	Page 515		Page 517
1	A. No.	1	
2	Q. Let me ask you about some of	2 3	CERTIFICATE
3	the expert work that you've done, just so	4	
4	that I'm clear on your prior testimony.	5	I HEREBY CERTIFY that the
5	Since the Ingham case, and	6	witness was duly sworn by me and that the
6	that verdict, and before you were hired	"	deposition is a true record of the testimony given by the witness.
7	in the MDL, did you continue to do any	7	, ,
8	expert work with regard to talcum powder	8	It was requested before completion of the deposition that the
9	products and ovarian cancer?		witness, KEVIN HOLCOMB, M.D. have the
10	A. No. You actually asked me	9	opportunity to read and sign the
11	that earlier. Same answer. No.	10	deposition transcript.
12	Q. Okay. And are you currently	11	
13	serving as an expert on the talcum powder	12	MICHELLET CRAY
14	products in any other litigation aside	13	MICHELLE L. GRAY, A Registered Professional
15	from the MDL?		Reporter, Certified Shorthand
16	A. No.	14	Reporter, Certified Realtime
17	MS. GARBER: Okay. Just	15	Reporter and Notary Public Dated: March 28, 2019
18	give me one moment.	16	201201 2012012012
19	Okay. All right. I have	17	(The fermion and G
20	nothing further at this point.	18 19	(The foregoing certification of this transcript does not apply to any
21	Thank you, Doctor.	20	reproduction of the same by any means,
22	THE WITNESS: Sure.	21 22	unless under the direct control and/or supervision of the certifying reporter.)
	NAC CHIDDN NI A'		SUDECVISION OF THE CERTITYING PENOTIES 1
23	MS. CURRY: No questions.	23	supervision of the certifying reporter.)
23 24	MS. CORRY: No questions. MS. GARBER: Okay. We're		supervision of the certarying reporter.)

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Kevin Holcomb, M.D.

	Page 518	Page 520
1	INSTRUCTIONS TO WITNESS	1
2		2 ACKNOWLEDGMENT OF DEPONENT
3	Please read your deposition	3 4 I. , do
4 5	over carefully and make any necessary corrections. You should state the reason	4 I,, do 5 hereby certify that I have read the
6	in the appropriate space on the errata	6 foregoing pages, 1 - 521, and that the
7	sheet for any corrections that are made.	7 same is a correct transcription of the
8	After doing so, please sign	8 answers given by me to the questions 9 therein propounded, except for the
9	the errata sheet and date it.	9 therein propounded, except for the 10 corrections or changes in form or
10	You are signing same subject	substance, if any, noted in the attached
11	to the changes you have noted on the	12 Errata Sheet.
12	errata sheet, which will be attached to	13
13	your deposition.	14
14	It is imperative that you	15 Le KEVIN HOLCOMB, M.D. DATE
15 16	return the original errata sheet to the deposing attorney within thirty (30) days	17 KEVIN HOLCOWD, W.D. DATE
17	of receipt of the deposition transcript	18
18	by you. If you fail to do so, the	19 Subscribed and sworn
19	deposition transcript may be deemed to be	to before me this
20	accurate and may be used in court.	20day of, 20 21 My commission expires:
21		22 wy commission expires
22		
23		23 Notary Public
24		24
	Page 519	Page 521
1	Page 519	Page 521
1	Page 519 ERRATA	1 LAWYER'S NOTES
1		1 LAWYER'S NOTES 2 PAGE LINE
	ERRATA	1 LAWYER'S NOTES 2 PAGE LINE
2 3 4		1 LAWYER'S NOTES 2 PAGE LINE 3
2 3 4 5	ERRATA PAGE LINE CHANGE	1 LAWYER'S NOTES 2 PAGE LINE 3
2 3 4 5 6	ERRATA	1 LAWYER'S NOTES 2 PAGE LINE 3
2 3 4 5 6 7	ERRATA PAGE LINE CHANGE REASON:	1 LAWYER'S NOTES 2 PAGE LINE 3
2 3 4 5 6	ERRATA PAGE LINE CHANGE	1 LAWYER'S NOTES 2 PAGE LINE 3 4
2 3 4 5 6 7 8	ERRATA PAGE LINE CHANGE REASON:	1 LAWYER'S NOTES 2 PAGE LINE 3
2 3 4 5 6 7 8 9 10	ERRATA PAGE LINE CHANGE REASON: REASON: REASON:	1 LAWYER'S NOTES 2 PAGE LINE 3
2 3 4 5 6 7 8 9 10 11	ERRATA PAGE LINE CHANGE REASON: REASON:	1 LAWYER'S NOTES 2 PAGE LINE 3
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